

## FEDERAL TRADE COMMISSION

## I N D E X

	SPEAKER:	PAGE:
1		
2		
3		
4		
5		
6	<u>MORNING SESSION</u>	
7	MS. ZIEDONIS	8
8	MR. BRUNT	20
9	MR. THURSTON	27
10	MR. McCURDY	35
11	MR. ZANFAGNA	41
12		
13		
14	<u>AFTERNOON SESSION</u>	
15	MR. WEBBINK	97
16	MR. SANDER	103
17	MR. BURK	107
18	MR. GABLE	113
19	MR. BLACK	123
20		
21		
22		
23		
24		
25		

FEDERAL TRADE COMMISSION

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25

In the Public Hearing on)  
COMPETITION AND INTELLECTUAL )  
PROPERTY LAW AND POLICY IN )  
THE KNOWLEDGE-BASED ECONOMY. )  
-----)

MARCH 20, 2002

Federal Trade Commission  
Room 432  
6th Street & Pennsylvania Ave, N.W.  
Washington, D.C., 20580

The above-entitled matter came on for hearing,  
pursuant to notice, at 9:42 a.m.

For The Record, Inc.  
Waldorf, Maryland  
(301)870-8025

## P R O C E E D I N G S

- - - - -

1  
2  
3 MR. BARNETT: Good morning. My name is Michael  
4 Barnett. I'm a staff attorney here at the Federal Trade  
5 Commission. I would like to welcome you to this  
6 morning's hearings, "Business Perspectives on Patents,  
7 Hardware and Semiconductors."

8 This hearing represents the second of our  
9 business-related hearings dedicated to various high-tech  
10 hardware and semiconductor industries, as opposed to  
11 other industries more adequately described as software  
12 and Internet or biotech and pharma.

13 Joining me today are my colleagues from various  
14 government agencies and I would like to introduce Susan  
15 DeSanti, to my left, Deputy General Counsel for Policy  
16 Studies at the Federal Trade Commission.

17 Sue Majewski, an economist at the United States  
18 Department of Justice, is to my right. And then two down  
19 to my left is Robert Bahr, Senior Patent Attorney at the  
20 United States Patent and Trademark Office.

21 Gathered with us are representatives from various  
22 companies as well as academia to provide us with their  
23 insight and experience into patents, competition and  
24 innovation within their business or field and, hopefully,  
25 in turn, their industries in general.

For The Record, Inc.  
Waldorf, Maryland  
(301)870-8025

1           In my opinion I think this is an impressive group  
2 of individuals who are distinguished in their fields and  
3 I'm anxious to hear their thoughts. With that, I think  
4 we should begin.

5           We will start by briefly introducing each  
6 panelist and following their introduction, they will  
7 provide a brief explanation of what their companies do,  
8 or their area of expertise, to provide us with some  
9 perspective into their industry.

10           Following these introductions, five of our  
11 participants have graciously offered to provide a brief  
12 presentation to introduce us to ideas and issues that  
13 they find particularly relevant and important to the  
14 issues at hand.

15           We will begin with three of these presentations  
16 followed by some discussion and a brief break. Following  
17 the break we will continue with two presentations  
18 followed by continued discussion.

19           To my far right is George Brunt. George Brunt is  
20 Senior Vice President, General Counsel and Secretary of  
21 Alcatel USA and is responsible for legal, business  
22 development, government relations, and intellectual  
23 property for North and South America.

24           George has also served as Vice President, General  
25 Counsel, and Secretary of DSC Communications Corporation,

1 before it was acquired by Alcatel. George.

2 MR. BRUNT: Thank you, Mike. It's a privilege to  
3 be here and to discuss patents and the convergence of  
4 intellectual property and competition.

5 Mike asked me to give just a little explanation  
6 of who Alcatel is. We are a global telecommunications  
7 company. We're headquartered in Paris, France with an  
8 Americas headquarters in Dallas, Texas.

9 We make all of the equipment that sits behind the  
10 jack in the wall where your telephone plugs in: the  
11 switchers, the routers, the cables, the fiber optics, all  
12 sorts of telecommunications equipment.

13 And I'll go into a little bit more detail about  
14 what Alcatel does and the commitment we have to  
15 innovation during the presentation.

16 MR. BARNETT: Great. Thank you, George. Next we  
17 have Dan McCurdy. Daniel McCurdy is the President and  
18 CEO of ThinkFire, a new company that we understand aims  
19 to help its clients obtain returns on their technology  
20 investments through intellectual property licensing.

21 Mr. McCurdy is the former President of Lucent  
22 Technologies' intellectual property business and he has  
23 worked for IBM and Siena Corporation as well.

24 At IBM, Mr. McCurdy was Vice President in charge  
25 of the company's market entry into the life sciences

1 information technology market. Dan.

2 MR. McCURDY: Thanks, Mike. I, too, am very  
3 pleased to be here today. It's a subject that I have  
4 spent probably the last 15 or 20 years in and about in  
5 the various companies that I have worked with.

6 I will make a couple of comments a little bit  
7 later with respect to some of the views on the subjects  
8 that this panel is addressing. I look forward to the  
9 interaction with the panel.

10 ThinkFire -- you put it about as succinctly as I  
11 can -- does exactly what you have said. We formed this  
12 company last summer to help leading innovative companies  
13 in the world in the licensing of their patents and  
14 know-how.

15 MR. BARNETT: Thanks, Dan. Next we have Harry  
16 Wolin. Harry Wolin is Vice President of Intellectual  
17 Property for Advanced Micro Devices, Incorporated.

18 Prior to joining AMD, Mr. Wolin was with Motorola  
19 for 12 years where he held a number of positions within  
20 its legal organization, primarily involving intellectual  
21 property law and culminating with his being Vice  
22 President and Director of Legal Affairs for Motorola's  
23 semiconductor product sector. Harry.

24 MR. WOLIN: Thank you for the introduction, Mike,  
25 as well as allowing me to participate in these hearings.

1 Of course the subject matter of these hearings are very  
2 interesting, especially being affiliated with AMD.

3 AMD is about a 33-year-old company and we  
4 participate in three businesses. We have got a flash  
5 memory business. We have a new business we're just  
6 trying to get off the ground, which is really embedded  
7 microprocessors for wireless-type devices. And then our  
8 flagship business is participating in X86 microprocessors  
9 for the personal computer and server markets as well as  
10 other chips that are needed for those types of platforms.

11 We are a company that had \$4.6 billion in revenue  
12 in 2000 and \$3.9 billion in revenue in 2001. Our big  
13 claim to fame there is we only shrunk at half the rate of  
14 the rest of the industry. I look forward to discussing  
15 these issues. Thank you.

16 MR. BARNETT: Very good. Thanks, Harry. Next, to  
17 my far left, is Rosemarie Ziedonis. Rosemarie Ziedonis  
18 is an Assistant Professor of Management at the Wharton  
19 School of the University of Pennsylvania.

20 Her research interests are in the area of  
21 intellectual property rights and corporate strategy in  
22 high-technology industries and she's currently working on  
23 assessing the impact of stronger intellectual property  
24 rights on firm strategy in the U.S. semiconductor  
25 industry and other research projects.

For The Record, Inc.  
Waldorf, Maryland  
(301)870-8025

1 MS. ZIEDONIS: Thank you for letting me join the  
2 panel and I look forward to sharing some insights of some  
3 large scale empirical studies that I have been doing both  
4 on my own and also in collaboration with Bronwyn Hall out  
5 at Berkeley whom you heard from on the previous panel.  
6 So thank you for the opportunity.

7 MR. BARNETT: Thank you. Next we have Gary  
8 Zanfagna. Gary is the Associate General Counsel for  
9 antitrust at Honeywell International. Before joining  
10 Honeywell, Mr. Zanfagna was Assistant Director for Policy  
11 Planning here at the Federal Trade Commission in  
12 Washington, D.C.

13 At the Commission he was one of the principal  
14 authors of the FTC and DOJ "Antitrust Guidelines for  
15 Collaborations Among Competitors" and was instrumental in  
16 writing the FTC staff report titled, "Anticipating the  
17 21st Century: Competition Policy in the New High-Tech  
18 Global Marketplace." Gary.

19 MR. ZANFAGNA: Thanks, Mike. I'd just like to  
20 thank you and thank Susan for the opportunity to be back.  
21 It's a pleasure to be here today, and I appreciate the  
22 opportunity to participate in the hearings on behalf of  
23 Honeywell.

24 I am Associate General Counsel for Antitrust at  
25 Honeywell. Honeywell is maybe a little broader than most

1 companies here. It's a \$24 billion diversified  
2 corporation, a technology and manufacturing company. We  
3 serve customers worldwide.

4 We're involved in home building controls. We're  
5 involved in automotive products, specialty chemicals,  
6 fibers, plastics and electronic materials.

7 We do also participate in the semiconductor  
8 industry in certain discrete or specialized areas. In  
9 addition, I look forward to talking more about what we do  
10 and our view on competition and intellectual property.  
11 Thank you.

12 MR. BARNETT: Very good. Thanks, Gary. Finally,  
13 we have Richard Thurston. Dick Thurston is the Vice  
14 President and General Counsel of Taiwan Semiconductor  
15 Manufacturing Company Limited.

16 Before coming to TSMC he pursued an international  
17 intellectual property-oriented practice at Haynes and  
18 Boone in Dallas, Texas and at Texas Instruments.  
19 Richard.

20 MR. THURSTON: Thanks, Mike, for the introduction  
21 and especially for the invitation to come all the way  
22 from Taiwan to participate in this morning's hearing. It  
23 is a great honor and pleasure to be here because this  
24 topic is extremely important to me.

25 I have spent about 25 years working in this area

1 but also it's especially important for our company which  
2 takes great pride in being a major technology leader. I  
3 think it builds products for, I think, all the companies  
4 here at this table in one way or another.

5 And we are also here because the U.S. law and  
6 U.S. market is extremely important to us. Over 60  
7 percent of our customer base are U.S. companies, largely  
8 a combination of fables companies.

9 Over 175 fables companies have been our  
10 customers as well as the IDMs, integrated device  
11 manufacturers, which we'll talk more about later. We  
12 also had a great year in 2000, about \$6 billion in  
13 revenue.

14 It dropped of a little bit last year although we  
15 were fortunate to turn a profit every quarter. This year  
16 is looking to be a strong one for us and hopefully, if we  
17 don't get into too much litigation over patent issues,  
18 we'll turn a profit again. Thanks.

19 MR. BARNETT: Thanks, Dick. Now, we'll begin with  
20 a few presentations from our panelists, and we're going  
21 to start with Rosemarie Ziedonis, who's going to give us  
22 an idea of what she's found with her research on various  
23 industries.

24 MS. ZIEDONIS: As I said, it is a pleasure to  
25 have the opportunity to present some work today. Mike

1 was kind enough to call me and ask me to kick off this  
2 panel by perhaps setting the stage with establishing some  
3 general trends that have been going on in patenting. We  
4 hear a lot about the explosion in patenting. Well, how  
5 does that compare with R&D trends over the past two  
6 decades that a lot of us have been scratching our heads  
7 about?

8 Why is semiconductors different? And I'd like to  
9 spend a bit of time, after laying out these general  
10 trends, focusing on the interesting and also different  
11 roles of patents even within one industry like  
12 semiconductors.

13 And building on a comment that was previously  
14 made, the role of patents for manufacturing firms versus  
15 fabless firms, as I'll call them, these specialized  
16 design firms, can be quite different. And I think that  
17 it's important to keep that in mind. So I want us to  
18 think about that as we continue through my presentation.

19 Now, the insights from two recent studies  
20 include, as I said, work in collaboration with Bronwyn  
21 Hall that was published in the *Rand Journal* last year so  
22 I'm going to be summarizing some of the main findings  
23 from that study and also recent work that I thank the  
24 National Academies and the Step Board for commissioning  
25 me to really trace, for about a 30-year period, patterns

1 of patent litigation in semiconductors.

2 And here I'm mainly talking about dedicated U.S.  
3 semiconductor firms but obviously companies like TSMC and  
4 the like are on receiving or giving ends of that  
5 particular sample. So semiconductors is an interesting  
6 setting to think about this role of patents and what  
7 purpose does it serve in either stimulating innovation or  
8 not?

9 I want to point out two things. One is that the  
10 Yale survey, the Carnegie Mellon survey, has consistently  
11 pointed out that if you interview or survey R&D lab  
12 managers across industries, representatives from the  
13 semiconductor industry report that patents are among the  
14 least effective mechanisms to appropriate returns from  
15 R&D.

16 Instead, we're talking about lead time, secrecy,  
17 complex manufacturing capabilities. We have other ways  
18 of profiting from R&D and we don't rely solely or largely  
19 on patents.

20 This is a consistent finding from these surveys.  
21 The first one that was administered in the 1982-83 time  
22 period and the second one that was administered in 1994  
23 after many of the pro-patent policies, as many of us call  
24 it, have taken place.

25 And despite that, you see that over a period of

1 the 1970s through -- and this drops off in '93 -- an  
2 explosion of patenting relative to R&D spending in the  
3 semiconductor industry.

4 So one of the main things that we should learn  
5 from this particular slide, what we've done here -- this  
6 is from the paper with Bronwyn -- is we tried to weight  
7 this explosion, this growth in patenting, by industrial  
8 R&D spending.

9 So the red line that you see that's a fairly flat  
10 line, slight decline from 1979 through -- the best way to  
11 end this is '93. Forget the drop-off. It's because of  
12 data issues.

13 But you see that overall, with U.S.  
14 manufacturing, that the patent growth hasn't been  
15 disproportionate relative to R&D spending. Part of that  
16 is because of an explosion and an increase in R&D  
17 spending in pharmaceuticals and the like that has  
18 certainly outpaced any growth in patenting during this  
19 period.

20 So the red line is really -- well, overall for  
21 U.S. manufacturers, patenting has grown but so has R&D  
22 spending. Now, if you look at the blue line, these are  
23 dedicated U.S. semiconductor firms and you'll see that  
24 around the mid-1980s we have a sharp increase in  
25 patenting per R&D dollar.

1           So if you think about any million dollars spent  
2           in R&D, more effort is generated, more resources, more  
3           time filing -- and these are applications that have been  
4           granted -- and obtaining U.S. patents. The black line,  
5           you'll notice, is computers. It follows a similar time  
6           trend but not at as high a level as what we see in  
7           semiconductors.

8           Now, our study ended around the 1995 period, and  
9           in case you think that this kind of aggressive patenting  
10          by semiconductor firms has gone away -- well, I can tell  
11          you, just for our sample of about 130-some U.S.  
12          semiconductor firms, including companies like AMD,  
13          excluding more diversified companies like a Honeywell or  
14          an IBM or Motorola -- just looking at the dedicated firms  
15          you'll see that from '95 to 2000 the number of U.S.  
16          patents awarded to these companies has continued to  
17          escalate. We do not have a slowing down of what has been  
18          an upward trend.

19          So what's driving this surge? That was the main  
20          question of a complicated study that I refer you to.  
21          Here I just want to highlight a few main points.

22          In the study with Bronwyn we focused on what  
23          might be the first obvious things you would look at.  
24          Well, maybe we've just gotten better at managing R&D labs  
25          so that we are just more productive for any dollar that

1 we're spending in R&D. We found little evidence that  
2 that was the case. We know that semiconductors has been  
3 an area where it has been fueled by technological  
4 opportunities and wireless communications and the  
5 Internet wave and a lot of other opportunities along the  
6 way.

7 We saw little evidence that that explanation was  
8 what was driving the surge and our main conclusion from  
9 the study was that these broader changes in the patent  
10 landscape in the United States have fundamentally  
11 affected the patent strategies in this industry.

12 There are two kinds of related and interrelated  
13 aspects that are complicated to tease apart. One is what  
14 we have referred to as this pro-patent strengthening of  
15 patent rights -- translated, this means higher  
16 probability of receiving large fines if you are found  
17 guilty of infringement, the shift in the evidentiary  
18 standards of invalidating patents, and a series of other  
19 reforms and policies set in place by the Federal Circuit  
20 Court.

21 The second one that I bulleted here is that  
22 perhaps that alone wouldn't have fueled all of this  
23 intensive patenting, but we also have something else  
24 going on, which is that it's fairly easy to get patents  
25 coming out of the patent office, at least this is my

1 understanding. This is not my area of practice.

2 But consistently in the interviews with folks in  
3 the industry I was like, "Well, you know, if we had to  
4 change one thing let's just make it a little bit harder  
5 to get all of these very trivial inventions coming out  
6 from the patent office." So those two things, I think,  
7 are going on.

8 There are very different strategic implications,  
9 however, for firms within the industry. Remember, I said  
10 at the beginning, two very different types of firms  
11 within, as we call it, the U.S. semiconductor industry.  
12 One, think of those that are operating \$2.5 billion, \$3  
13 billion manufacturing facilities that integrate very  
14 complex technologies. Those are manufacturers. And then  
15 we'll think a few minutes about the different  
16 implications for design firms separately.

17 So these manufacturers, the ones that own these  
18 complex expensive facilities, their main reaction  
19 according to our results was that, "Boy, if you're  
20 strengthening the rights of patent owners, we're now  
21 concerned about being held up by those patent owners."

22 So we want to basically preempt litigation,  
23 preempt the use of external rights against us. We're  
24 going to patent so that we exclude others before being  
25 excluded ourselves -- a very defensive tone to the use of

1 patents. We're going to value owning these patents  
2 because we need them to trade, either in cross-license  
3 agreements or license agreements. And as someone trained  
4 more on the economic side, I started out this being a  
5 little suspicious and asking why would quantity matter?

6 I mean, surely the quality of the portfolios --  
7 it's well, quality matters, but quantity matters too. So  
8 there is this notion of the quantity of the portfolio,  
9 size of the portfolio actually being of some economic  
10 value in these license exchanges.

11 And then finally, we see this showing up in  
12 improved internal management. This was not unusual in  
13 some fields, more unusual for the tier of companies that  
14 we were talking about in semiconductors. A lot more  
15 attention paid to how do we generate, harvest, patentable  
16 inventions internally. So is it the establishment of  
17 these advocacy committees, more attention to really  
18 identifying discovered inventions that would qualify for  
19 patents, and then, finally, supplementing that with  
20 annual goals and awards?

21 A very contrasting view, if we think about the  
22 perspective of specialized firms that lack manufacturing  
23 capabilities of their own, that contract out those with  
24 companies such as TSMC and rely critically on patents to  
25 raise capital, especially in the start-up phase.

1           Here, the reaction to this stronger patent regime  
2 was, that is fantastic. We rely on bulletproof -- we're  
3 not going to play the kind of get-as-many-patents-as-we-  
4 can game.

5           We want very strong, solid patent protection to  
6 raise venture capital, to stake out these proprietary  
7 rights -- not necessarily against incumbent firms but  
8 against other niche market rivals, and Ethernet cards,  
9 and input/output devices and the like -- and then an  
10 intentional strategy towards enforcing these rights. One  
11 of what, I thought, was a surprising finding in my work  
12 for the National Academies was that these specialized  
13 firms are enforcing their rights at a rate that looks  
14 remarkably like the specialized biotech firms.

15           So four out of every hundred patents that they  
16 own end up in court. That's actually a very, very high  
17 number relative to other industries and within the  
18 semiconductor industry.

19           However, one thing that I had noticed just from  
20 field interviews is that there was more attention towards  
21 this patenting defensively and beefing up of portfolios  
22 as the revenues increased and as the companies grew  
23 older. So, in summary, semiconductor firms do not rely  
24 solely on patents to capture the returns from knowledge  
25 assets. We know that from the surveys that Rick Levin

1 and others have set forth before us.

2           However, many companies operating in this area  
3 can't afford not to patent, but for very different  
4 reasons. For manufacturers these are strategic assets  
5 used in cross-licensing, used defensively, which we may  
6 want to think about from the policy perspective. For  
7 design firms, however, these are critical business assets  
8 in a way that, in my opinion, the patent system was  
9 really intended to operate.

10           Emerging issues or at least questions that I  
11 would like to pose that I'm still wrestling with and that  
12 I would pose to the panel, how long will this upsurge in  
13 patenting continue? This is a costly exercise. There is  
14 some indication that firms are turning more to defensive  
15 publications much like IBM used, the old technical  
16 bulletins and the like, but there is also this economic  
17 cost perhaps of doing that because of foregoing the  
18 leverage in negotiations.

19           The second point that, I think, is perhaps more  
20 closely related to antitrust issues is how exactly are  
21 firms navigating these thickets of patents that have been  
22 issued? And this gets, obviously, at the interface of  
23 innovation and then competition and cooperation on the  
24 other hand in terms of patent pools, cross-licensing  
25 agreements and the like. And then finally, the question

1 that is still not clear is whether, on net, the surge in  
2 patenting is truly good or bad news for innovation in  
3 this industry as we see it being challenged now with  
4 research tools and genomics and software which we'll be  
5 discussing later on this afternoon. Thank you.

6 MR. BARNETT: Thank you, Rosemarie. We're going  
7 to move on to another presentation. If I could get you  
8 to close -- there we go. We run a danger of the laptop  
9 crashing if each person doesn't close out their  
10 PowerPoint after they're done. I think at this point  
11 we're going to hear from George Brunt.

12 MR. BRUNT: It's a privilege again to be here  
13 today and to address these issues. I want to go a little  
14 bit more in depth into Alcatel and what Alcatel is. I  
15 know that it's not a household name yet in the United  
16 States but I think it's rapidly becoming one.

17 What we do is we do design. We do have some  
18 semiconductor activity but largely our activity is in  
19 telecommunications, which consists of semiconductors,  
20 computers and networks.

21 And we design, develop, build and market  
22 innovative networks and solutions for our  
23 telecommunications customers. Our goal is to enable any  
24 type of content to be delivered to any type of customer  
25 anywhere in the world.

1            Basically, our strengths are our global presence,  
2 complete portfolio of all the telecommunications  
3 equipment that you could want, and the ability to  
4 integrate this equipment into networks throughout the  
5 world.

6            This is a slide we don't often show the Justice  
7 Department but we are the number one service provider in  
8 infrastructure worldwide. We're number one in broadband  
9 access, number one in global optical transport.

10           In ATM we're number two worldwide, number one in  
11 contact centers worldwide. These are customer contact  
12 centers for companies who want to have a customer call-in  
13 center. We're number one in DWDM and SDH, worldwide, and  
14 a leader in intelligent networks. We're number four  
15 worldwide in satellites, and we're a leader in enterprise  
16 solutions.

17           And so we really do have quite a presence in the  
18 telecommunications industry worldwide. Our roots come  
19 from the same place that AT&T's and Lucent's roots come  
20 from. And in telecommunication we're basically what was  
21 the old International Telephone and Telegraph, or ITT.

22           So some facts and figures. Basically, we're  
23 around \$24- \$25 million in annual sales. We invested in  
24 the year 2001 11.3 percent of our revenues into research  
25 and development. So we're very committed to research and

1 development and to innovation. We have around 100,000  
2 employees worldwide. We're in 130 countries and we have  
3 over 22,000 engineers.

4 You can see by this chart the different areas  
5 that our business is focused in. Carrier networking is  
6 45 percent of our business. Space and components is 12  
7 percent, and e-business is 14 percent, and optics is 29  
8 percent.

9 Our customers run the gamut of anybody who is  
10 trying to establish a communications network whether  
11 their carrier is mobile operators, mobile phones, fixed  
12 line proprietors, data providers, voice providers -- and  
13 we have customers all over the world.

14 And most of the companies that make up Alcatel  
15 have been home grown in their home country. And that's  
16 true with the United States, too. The companies that are  
17 here, the Alcatel companies that are here, are companies  
18 that have grown up here.

19 Optics I use as an example, some of the  
20 innovation that we do and the breadth of what our  
21 innovation is addressing. Both network intelligence,  
22 which is becoming more and more important, network  
23 solutions, terrestrial systems, submarine systems. We  
24 also make the fiber cables and the optical components  
25 that go into the system.

1           We believe that this is an evolving system that  
2           the eventual answer will be a fully optical switching  
3           photonic, era, but there are some steps we have to go  
4           through to get there and we serve all of those levels,  
5           including ADSL and broadband, that are part of the  
6           migration path.

7           And there's a lot of innovation and there's a lot  
8           of development left to be done. One of the main things  
9           driving us today are our costs. And so we're trying to  
10          address our customers' issues by providing more for less.  
11          And these are the research and development centers that  
12          we have around the world.

13          So to get on to the topic that we're addressing  
14          here today, innovation is one of the core values of  
15          Alcatel. We have 6,000 patent families, 22,000  
16          individual patents worldwide. They're in the various  
17          different areas that we have been discussing.

18          We also concentrate heavily on trade secrets. I  
19          think it's a good thing that the Department of Justice  
20          and the FTC is taking an interest in this because I think  
21          there's a lot of innovation yet to come.

22          We spend around \$3 billion a year in innovation  
23          and if it weren't for patent protection and for trade  
24          secret protection of the intellectual property rights, we  
25          could never get investors to allow us to spend that much

1 of their hard-earned money on research and development.

2 Patents have proliferated over the years and I  
3 think one of the things that is of interest to this panel  
4 is what's causing the increase. And I think it's just  
5 because we're in the information age. There is a lot  
6 more information. We can more easily identify the  
7 problems that need to be addressed and there's more  
8 people working on the problems.

9 I think that this is the greatest stage of  
10 innovation and it's in front of us not behind us. Even  
11 though we have experienced great innovation in the last  
12 few years it will accelerate. And so, it's justified  
13 what we're doing here.

14 The founding fathers knew that great strides  
15 would be made in society if innovation and disclosure was  
16 encouraged and that's the purpose of the laws.  
17 Innovation had been protected by trade secret laws and  
18 that's old. We have cases going back to Roman times for  
19 inevitable disclosure when they would protect employers  
20 from their employees leaving with their ideas.

21 In order to coax companies to release these ideas  
22 and to allow them to be practiced in the public, the  
23 Constitution has granted some exclusive rights to  
24 inventions and innovations. And I believe it was  
25 divinely inspired in our Constitution and that's one of

1 the great things that has made the United States advance.

2 Patent uncertainty, we still have problems with  
3 it. The process, I think, is too slow. Far too many  
4 patents fail for lack of validity. And this is one of  
5 the things that's causing the cost of litigation and the  
6 waste that goes on in the process. We figured that to  
7 maintain a patent worldwide over a period of 20 years it  
8 costs about \$200,000. Therefore, patents are assets that  
9 suck money out of the system unless there's a licensing  
10 program that brings the money back in.

11 And so that's one of the reasons why you see more  
12 patenting and more emphasis on licensing and on mining  
13 the value of your patent portfolio today. Litigation is  
14 also very expensive.

15 There are some new companies emerging with what I  
16 think is a shortsighted patent philosophy. These  
17 companies live to exploit innovation from companies that  
18 they acquire through marketing schemes and don't rely so  
19 much on IP.

20 But I think it's shortsighted because if  
21 innovation isn't protected, they're going to run out of  
22 companies with innovations to exploit. And this chart  
23 kind of shows you in a way some of what they call the New  
24 World companies or .com companies have a different view  
25 of IP. But I think that this is shortsighted because it

1 doesn't result in a reinvestment in research and  
2 development.

3 Trade secrets are also important. Particularly  
4 in times when patents can't be counted on to be  
5 enforceable companies hold onto their innovations by  
6 trade secrets. So common law trade secrets have been  
7 enforced throughout time. It's an important property  
8 right.

9 The very adoption of patent law to encourage  
10 disclosure recognizes the law of trade secrets. And it's  
11 in the laboratory where most innovation takes place.

12 We've had a hard time at Alcatel in keeping our  
13 innovations in our laboratories and patents have not been  
14 effective for us to protect those innovations because  
15 they walk out the door far before the patent is available  
16 to help us.

17 Patents don't become effective until issued. The  
18 patent issuance process takes a lot of time, and if a  
19 group of employees working on a specific project leave  
20 our lab and go out -- are funded by venture capitalists  
21 to start another company that's going to do the same  
22 thing that they were doing in our lab -- then we run into  
23 some severe problems.

24 We have to use trade secret laws to protect  
25 ourselves and patents are inadequate there. And it's

1 different in each state, so I would really encourage the  
2 adoption of a federal trade secret law because it's the  
3 precursor of patent law.

4 The other aspect that I think is very hard to  
5 realize is the value of patents, and the value of  
6 innovation to our society. It's hard to think in the  
7 billions and trillions. And that's what it costs to  
8 innovate and we need the protection that allows us to  
9 continue with this innovation.

10 Basically, I think that it's very important that  
11 we resolve the uncertainty in the patent and the  
12 trademark system and that we continue to uphold it  
13 because I think it's the basis of innovation in our  
14 society and responsible for the great advances that have  
15 been made in the last 150. Thank you, very much.

16 MR. BARNETT: Thank you, George. Next we're going  
17 to hear from Richard Thurston at TSMC.

18 MR. THURSTON: Good morning again. It's a real  
19 pleasure to be here and it shows what a small world this  
20 is. I traveled all the way from Taiwan to follow a  
21 fellow Texan, that I live in the same community in which  
22 he lives and have had a close working relationship with a  
23 lot of his executives over the years, before I moved out  
24 to Taiwan.

25 As you heard, I'm with TSMC, again, also not a

1 household name although most of the products that are in  
2 your household have contained products that were built by  
3 our company for our customers.

4 We are a young company, only 14 years old, having  
5 been established back in 1988 in Taiwan as the really  
6 first contract manufacturer in the semiconductor  
7 industry. We have grown to be the world's largest  
8 foundry in this business and take great pride in our  
9 technological accomplishments.

10 Today we are in full scale manufacturing of  
11 technologies at the .13 micron level which is a  
12 significant factor in the ability to have a lot of  
13 technologies at your home which you enjoy, which your  
14 kids enjoy, such as Xbox. Nvidia is a major customer of  
15 ours and has been a major enabler of products such as  
16 that.

17 It's been also an interesting career for me  
18 because I had the honor of being at the dawn of creation,  
19 so to speak, when I joined TI in 1984 and was actively  
20 involved in a lot of the strategy that went into our  
21 licensing program, especially as concerns Asia. I was  
22 Asia-Pacific regional counsel at that time, lived in  
23 Tokyo from '87 through '90, and was actively involved in  
24 much of what we were doing out there.

25 At that point in time, as has probably been well

For The Record, Inc.  
Waldorf, Maryland  
(301)870-8025

1 written and maybe my friend and former colleague, Fred  
2 Telecky, talked about it at the last hearing in  
3 California, that TI really entered upon the program out  
4 of necessity, out of survival.

5 We were really dying in many ways, lost  
6 competitive edge, not just because of the Japanese  
7 dumping but because of a lot of factors, but most  
8 importantly felt that we were not obtaining a fair return  
9 on our investment in the technology market and  
10 particularly when you look at the level of research and  
11 development that went into semiconductors at that time.  
12 And that has only exponentially increased today.

13 And, in fact, Rosemarie, the average price of  
14 building a 12-inch wafer fab, the most advanced, is in  
15 excess of \$4 billion today. That's how much it costs for  
16 us. We're building two of those facilities right now.  
17 Intel, IBM are among the last of the generation that are  
18 building such facilities that are very important to the  
19 survival of the semiconductor industry. Our greatest  
20 fear is also what's looming on the horizon across the  
21 Taiwan Straits, and for many reasons, cheap manufacturing  
22 costs, but also still a lack of consideration given to  
23 intellectual property issues.

24 In fact, we have initiated some significant trade  
25 secret cases in Taiwan, and I agree with my colleague

1 George about the importance of trade secrets. And  
2 perhaps in many ways in the future I would encourage FTC  
3 and Justice to look more at that. And it may be a way  
4 also to eliminate some of the backlog at the patent  
5 office.

6 We are a process manufacturer. We do not do the  
7 design work of the semiconductor chips. We leave that to  
8 AMD and Honeywell and Alcatel and others. We build the  
9 manufacturing processes, and therefore, as in most  
10 process-oriented companies, the manufacturing trade  
11 secret value is fairly significant.

12 TSMC today has over 3,000 patent applications  
13 that have been filed in the U.S. Nearly 2,000 have been  
14 issued. Two thousand five hundred in Taiwan, and then  
15 maybe another 500 around the rest of the world -- I'll go  
16 into that next as to some of the rationale behind our  
17 programs and then hopefully save the rest for discussion.

18 I would add, Rosemarie, that I concur with most  
19 of your comments and would certainly be glad to expand on  
20 it from our position as a foundry. Also, we are  
21 fortunate to have unique insight into the fabless design  
22 companies as well as the IDMs themselves since most of  
23 them or many of them are our partners.

24 As we saw from George's presentation the founding  
25 fathers had a very specific view of what the patent

1 clause should look like. I have prepared a ten-page  
2 paper that I have given to Mike that will be published  
3 that goes into a little bit more of the founding fathers  
4 thoughts. I have done a lot of research in this area as  
5 well as a lot of the issues behind TSMC and our  
6 perspective on semiconductors and patents and  
7 intellectual property.

8           Needless to say, Jefferson, Madison, Pinckney and  
9 others were initially strongly opposed to providing any  
10 patent monopolies in the United States because they  
11 feared that it would limit innovation.

12           There is extensive discussion in their papers and  
13 also in the Federalist Papers, particularly 43, on the  
14 thinking behind finally accepting a patent clause.  
15 Looking at the objectives and goals that TSMC has, we  
16 have heard a number of those from George, but first and  
17 foremost is to manufacture securely and freely, not to be  
18 shut down.

19           We want to sustain competitive advantage. We  
20 want to enhance our global image, provide the customers  
21 value-added and leveraged access to third parties.

22           And we do a lot of joint development work which  
23 is also relevant to this topic and I can talk about that  
24 more in discussion.

25           Increasingly, and one of the reasons I was hired

1 is to try to help minimize patent infringement, liability  
2 damages cost, particularly that which involves lost  
3 management time that you have to face as you prepare for  
4 those, certainly, and when you get an infringement claim  
5 notice of doing the internal research and review and  
6 analysis.

7           Increasing shareholder value and increasing  
8 employee welfare -- much more through innovation,  
9 initially; today though, as we've heard, patents are  
10 driving for a number of reasons. When we file, we have a  
11 number of considerations, certainly patentability, as  
12 provided for under law.

13           We do competitive analyses of what our  
14 competitors are up to in this area. And again, this is  
15 largely driven from a defensive position rather than any  
16 offensive or revenue-generating. We want to know what  
17 potential claimants are doing that might come after us  
18 for infringement in the process area.

19           We consider our advance process technology  
20 roadmap, particularly as we have gone and we have  
21 developed our portfolio, especially focused on 1.18  
22 micron and below. More patents today are going into the  
23 .10 micron area.

24           New manufacturing processes such as copper  
25 technology, titanium dioxide, et cetera, are

1       considerations; portfolio value, design around, as we  
2       know, are looked at and we looked at other intellectual  
3       property issues, trade secrets particularly; and finally,  
4       designing our patents, our claims and the way we  
5       prosecute in the patent office with litigation  
6       considerations in mind.

7               Our efforts have been intensifying. Only a  
8       12-year-old company, having had issued nearly 2,000  
9       patents in the United States is not a small  
10      accomplishment. We have been filing 400 to 500 a year.  
11      Our goal now is to file about 500 patents a year, again,  
12      largely for defensive purposes. Globalization also  
13      requires us to file more. Primarily, up to now it's been  
14      Taiwan and the U.S. However, China, as your heard, is a  
15      major factor in consideration; the EU and some in Japan.

16             Quantity versus quality. Quantity is a very real  
17      factor out in the industry for defensive purposes.  
18      Sometimes the ability to throw 20, 50 good patents  
19      against someone, that takes a tremendous time to research  
20      on prior art, invalidity, et cetera, does enable the  
21      scales to be a little bit better balanced, especially as  
22      you're playing a catch-up game in hard-court quality.

23             We look at trying to leverage our portfolio in  
24      connection with joint development products, research and  
25      development. You have probably seen where we announced

1 two weeks ago a major R&D program with Phillips and ST  
2 Microelectronics. Other factors, such as defensive  
3 position, litigation resource, et cetera, are taken in  
4 full consideration. I must have fallen asleep a little  
5 bit on the plane -- patent tolling is important, but here  
6 it was supposed to be patent trolling. A major concern  
7 we have is with respect to companies that are no longer  
8 in the manufacturing business that are coming after  
9 companies such as ourselves for significant royalties.  
10 And there's no way to defend against that. I spent a fair  
11 amount of time in my paper discussing the negative effect  
12 that has and the proliferation of litigation in that  
13 area.

14 A couple of individuals' names I won't mention  
15 here but everybody knows about in the field have been  
16 certainly significant. In one matter right now we  
17 entered into a license agreement with the "L" company and  
18 we're getting sued again because they didn't like the  
19 initial terms of the license agreement. This is a  
20 serious problem that we have to look at. I'm concerned  
21 about some of the issues that were not the intention of  
22 the founding fathers. And, of course, we have the issue  
23 of trying to stretch patents beyond the scope of the real  
24 invention which is again, in part, what I just referred  
25 to. And I also would strongly endorse trying to get more

For The Record, Inc.  
Waldorf, Maryland  
(301)870-8025

1 resources into U.S. PTO although I'm not sure if it  
2 really will help in the total big picture.

3 I remember having a number of discussions with  
4 Bruce Lehman when I was at TI concerning the  
5 expropriation by Congress of patent filing of fees and so  
6 forth and we do not condone that. Thank you. I'll talk  
7 with you later.

8 MR. BARNETT: Thank you, Richard. With these  
9 ideas in mind I would like to begin our discussion  
10 portion of the hearing. Let me begin with some rules of  
11 the game.

12 If, during the course of the discussion you would  
13 like to contribute, just please stand your nameplate on  
14 end and then we'll call on you in turn.

15 I think at this point I would like to give maybe  
16 Dan McCurdy a chance to comment on some of the things  
17 that he's heard here. I know that he doesn't have an  
18 opening presentation prepared, but I'd like to hear from  
19 the people that haven't had presentations so far and just  
20 hear what their thoughts are on what they have heard so  
21 far and then we'll go from there. So why don't we start  
22 with Dan?

23 MR. McCURDY: Mike, it's true I don't have an  
24 opening presentation. I do have seven points that I  
25 would like to make that will take me about a minute and

1 30 seconds and then one question, at least for Rosemarie  
2 with respect to her presentation.

3 First, I believe as you have heard from others  
4 that the intellectual property system in the United  
5 States has served the country exceedingly well since its  
6 inception. It has shown amazing resilience to  
7 accommodate tremendous progress in science and the useful  
8 arts. The evolution of the system has been the key to  
9 that. Attempts at dramatic change such as the sui  
10 generis Chip Protection Act have proven distracting and  
11 unhelpful.

12 Second, the patent system has encouraged enormous  
13 investments in technology and life sciences, two  
14 industries with which I am familiar. Without the patent  
15 system, substantial investments would not occur -- George  
16 also made this point -- and technical progress would slow  
17 dramatically.

18 Third, in high-technology industries, unlike, for  
19 example, the pharmaceutical industry, patents can seldom  
20 be used successfully to exclude others. I think this is  
21 a very key point.

22 Few innovations are sufficiently fundamental to  
23 permit such exclusions. With time and money, most  
24 high-tech innovations can be avoided by engineering  
25 around them. They are more like speed bumps than

1 concrete barriers.

2 Nonetheless, these speed bumps can be expensive  
3 to build, so companies that are net innovators rather  
4 than net users of others innovations pay a toll in the  
5 form of royalties for their use of such innovations.  
6 This royalty enhances the ability of those who are  
7 significant inventors to continue the cycle of  
8 innovation. Our economy is the winner.

9 Fourth, patents can enhance the standards  
10 process, provided essential patents are used and  
11 standards are licensed under reasonable and  
12 non-discriminatory terms. Inhibiting the licensing of  
13 patents used in standards or requiring patents used in  
14 standards be licensed royalty-free would diminish  
15 investment in precisely the areas where investment should  
16 be encouraged.

17 Fifth, recent practices in patent creation and  
18 patent enforcement, such as the so-called submarine  
19 patents, damage the legitimacy of the patent system.  
20 Actions such as tailoring patent applications through  
21 continuations to place a potential licensee's products in  
22 direct infringement of the patent when it actually issues  
23 do nothing to promote innovation.

24 Sixth, next to last, arguments that the patent  
25 protection of computer software-related inventions has

1       harmed or is harming innovations in computer software are  
2       uncompelling.

3               The United States has long had the most effective  
4       protection for computer programs in the world. Under  
5       this regime our country has developed the most effective  
6       and impressive computer software industry in the world.  
7       Countries with weaker intellectual property systems in  
8       this area have failed to make such economic progress.

9               To date, I have found no empirical evidence,  
10       whatsoever, demonstrating damage to software innovation  
11       by the protections afforded all software developers. In  
12       fact, the evidence of industry leadership points in the  
13       opposite direction. Lacking clear and convincing  
14       evidence, tinkering with the system that has produced  
15       enormous economic benefits to the United States would be  
16       ill-advised.

17               Lastly, the licensing of intellectual property,  
18       particularly patents and know-how, is a significant  
19       catalyst to competition and that enhanced competition is  
20       a further catalyst to innovation.

21               With that, one question I have for Rosemarie, has  
22       the study looked at all at this upward trend of patent  
23       applications and patent issuance? Have you also looked  
24       at patents that are being dropped by companies at the  
25       same time, obviously, that they're being issued? The

1       burden, of course, being otherwise companies end up with  
2       tens or even hundreds of millions of dollars a year of  
3       maintenance fees, and what the impact of that has been on  
4       a net holding by an individual company of a portfolio?

5               MS. ZIEDONIS: To answer your question honestly,  
6       no. Those numbers are not corrected for applications  
7       that have been granted but then the maintenance fees are  
8       not paid.

9               That said, one, it can be done. It just hasn't  
10      -- we haven't merged that part with it. The other thing  
11      is that a funny empirical fact from studies that Mark  
12      Schankerman and Jenny Lanjouw have done some work in this  
13      area as well.

14              When they have looked at renewal rates across  
15      industries, semiconductors and electronics are actually  
16      renewing on a higher level than pharmaceuticals or other  
17      industries, suggesting that maybe some patents are being  
18      kept alive for reasons not directly tied to the short  
19      product life cycles that characterize the industry.

20              MR. McCURDY: The reason I asked the question is  
21      it is probably important data to know. It's also  
22      extremely difficult to get. You can search it out but it  
23      isn't something that in our attempts to find the data,  
24      and so all we have is anecdotal at best.

25              I know what we did at IBM. I know what we did at

1       Lucent, which is you look at IBM as an example for, what,  
2       the last eight or nine years it's been the number one  
3       producer or grantee of U.S. patents and yet the portfolio  
4       overall has not grown all that significantly, because as  
5       they granted patents they dropped patents. The idea  
6       being that they want to improve the quality of the  
7       portfolio not the quantity of it. It's an important  
8       correlation of fact. Whether it's pervasive, I don't  
9       know.

10               MS. ZIEDONIS: If I can make one clarifying  
11       comment. The trends that I presented, those upward  
12       trends, were simply the number of successful applications  
13       in a given year. Those were not cumulative numbers.

14               MR. McCURDY: Right. And so if you look at the  
15       overall size of the U.S. patent, of what I call active  
16       patents, and do a trend of that, it's also an important  
17       piece of empirical data to have, just to see if we know  
18       that.

19               MR. BARNETT: On that note, I think that one thing  
20       that we are interested in is the role that patents are  
21       playing in a company's fundamental innovation decisions.  
22       I might open this question up as to what that role is to  
23       the panel. I might start with Gary, just because I know  
24       that he mentioned that Honeywell is such a diversified  
25       company that that might provide some interesting

1 perspective on this.

2 MR. ZANFAGNA: Absolutely. Might it make sense  
3 for me to make my two-minute comment now as opposed to  
4 waiting?

5 MR. BARNETT: Sure. By all means. Go ahead.

6 MR. ZANFAGNA: Why don't I just do that.

7 MR. BARNETT: Sure.

8 MR. ZANFAGNA: Thank you, Mike. Again, it's a  
9 pleasure to be here. I'm here today as antitrust counsel  
10 for Honeywell and that's largely the perspective with  
11 which I approach this topic of the intersection between  
12 antitrust and intellectual property.

13 I did not prepare a PowerPoint presentation and  
14 as antitrust counsel you will not see any presentation  
15 from me stating, "Number one in everything we do." I can  
16 assure you that I take that out all the time, out of the  
17 presentations that my company puts together. So I'm  
18 proud to say that today, and I will keep my comments very  
19 brief today as well.

20 I said before we're a large diversified  
21 manufacturing and technology company. It's interesting  
22 to me to be here today because we really are in many ways  
23 quite different from the organizations that are here  
24 today, the companies that are here today. Also, we have  
25 some similarities.

1           As I said before, we do participate in the  
2 semiconductor industry. I think you might call them a  
3 specialty semiconductor area and I don't think I'm really  
4 here to talk about that today. It's a niche market and  
5 it really, I don't think, operates in the same way that  
6 other industries and other businesses here are going to  
7 talk about.

8           I wanted to spend a couple of minutes today and  
9 it might be a good opportunity to change the dialogue  
10 slightly to talk a little bit more about antitrust and  
11 intellectual property and how Honeywell and I, anyway,  
12 see that combination impact innovation.

13           Let me start with the following. As Honeywell  
14 folklore goes, our company was founded and built on a  
15 patent. In the late 19th-century, a gentleman by the  
16 name of Mr. Butz invented and patented what is no doubt  
17 famous to all of you, the flapper damper. It's a  
18 wonderful device that mechanically regulated the airflow  
19 in a home furnace and that permitted the coal fire to  
20 burn all night. And in Minneapolis, which is the  
21 headquarters, the former headquarters of Honeywell, it  
22 was absolutely critical at that time to keep the fire  
23 burning. Honeywell hasn't looked back since then and my  
24 point simply being with the endnote that intellectual  
25 property is, in fact, in a very real sense a cornerstone

For The Record, Inc.  
Waldorf, Maryland  
(301)870-8025

1 of Honeywell.

2 Today and throughout the history of Honeywell  
3 over the last hundred or so years, Honeywell has  
4 innovated in order to vigorously compete in the  
5 marketplace and service customers. I very much agree  
6 with the comments from the other side of the panel.

7 Antitrust laws promote innovation through free  
8 and fair competition. That's my perspective on the  
9 world. Intellectual property rights promote innovation  
10 by encouraging private investment in the development of  
11 new and improved products and technologies.

12 Without the protection afforded by intellectual  
13 property rights, Honeywell, I will say, would not be able  
14 to commit the same level of resources to innovation.  
15 Simply put, intellectual property rights encourage  
16 innovation by enabling sufficient level of return on our  
17 investment in our R&D.

18 Does the nature of innovation depend on or vary  
19 by the industry in which Honeywell competes? The answer  
20 is absolutely yes. In chemicals and pharmaceuticals, for  
21 example, if I can just broaden the discussion briefly,  
22 innovation is more typically what one might call discrete  
23 or distinct.

24 The value of a patent in these industries is  
25 often the exclusive right to a particular chemical or a

1 particular blend or to a next-generation drug. Again,  
2 these are industries that Honeywell participates in.

3 The benefit is quite clear and it can be absolute  
4 in those industries. In other industries in which  
5 Honeywell competes, such as aerospace, home ability  
6 controls, innovation is considered more cumulative or  
7 incremental, I think, are terms that one might use.  
8 Honeywell will not patent an entire new generation  
9 engine. It patents innovation on a new engine and  
10 patents improvements on an engine.

11 Similarly with the thermostat, we don't patent  
12 the new thermostat. We patent developments on new  
13 improvements on the thermostat. So although the nature  
14 of innovation -- and this is the point that I would want  
15 to make loudly -- although the nature of innovation  
16 varies from industry to industry, the fundamental role of  
17 innovation is Honeywell's ability to compete remains  
18 constant.

19 Honeywell maintains and furthers its competitive  
20 advantage in the marketplace, in whatever industry we're  
21 competing in, all of the ones I have mentioned, through  
22 continuously developing new and improved products and  
23 technologies.

24 Innovation is critical to Honeywell's ability to  
25 compete in the multitude of marketplaces and cross-market

1 space that it does. Intellectual property protection is  
2 at the core of Honeywell's ability to innovate.

3 The level of investment, again, as I said before,  
4 in innovation is contingent on our ability to earn an  
5 expected rate of return on our investment, on the  
6 innovation that we make.

7 Let me just give a brief perspective on this.  
8 Honeywell has tens of dozens of engineers across the  
9 country and across the world that are dedicated to  
10 finding novel solutions for new and improved products,  
11 materials, methods, processes.

12 Annually, Honeywell engineers internally submit  
13 around 1,000 patent disclosures. About half of those  
14 result in patent applications before the PTO, just to  
15 throw numbers out as everybody is today.

16 About 80 to 85 percent of our patent applications  
17 are granted so we're somewhere in the range of between  
18 400 and 500 patents a year that Honeywell is granted.

19 The point I'm making is saying that in order to  
20 compete, we innovate. We invest a lot of money in  
21 innovation and we protect that innovation through the  
22 development of and the perfection of intellectual  
23 property rights. I'll just leave it at that.

24 I just think that's the starting question for me  
25 and that's the perspective on which I'm going to talk in

1 general. Thank you.

2 MR. BARNETT: Well, for example, both George and  
3 Dick brought up the idea of trade secrets being essential  
4 to innovation to some extent. And I think some people  
5 would say that those are arguably somewhat inconsistent  
6 -- well, maybe not inconsistent, but at the same time  
7 they're different doctrines.

8 And so how does this compare -- I'll throw this  
9 out to the panel -- just at what time is trade secret  
10 appropriate and what time is patent appropriate when  
11 you're considering a role in innovation?

12 MR. BRUNT: I can address that a little bit, Mike.  
13 I think that the trade secret is the more fundamental  
14 right. No one should be able to force someone to  
15 disclose their innovation. That's why you provide an  
16 incentive for it.

17 But the trade secret definitely limits  
18 competition in large degree because if you never disclose  
19 the idea, then it isn't coaxed out into the public use  
20 and other companies don't develop to exploit the idea and  
21 to bring the value into society that can be brought.

22 So I think that's why the emphasis on patents and  
23 why the emphasis on this limited period of time that  
24 inventors and authors can have some exclusive rights to  
25 recoup their investment.

1           Now, I think that the trade secrets are essential  
2           in the early stages of innovation. And innovation is  
3           essential for competition. So they do play a vital role  
4           in competition because if you can't protect your trade  
5           secrets then you can't afford to invest in innovation.

6           MR. THURSTON: I think you have to look at the  
7           specific industry in question and it varies, again based  
8           on the industry. An industry that's oriented toward  
9           process technology, in our case, trade secrets can become  
10          much more relevant.

11          The problem with trade secrets are that you can't  
12          use them to defend against patent claims by other  
13          companies. The problem with patents is when you have a  
14          lot of what we call the spice rules, designs internally  
15          for a processes, if we go for a patent in some of those,  
16          then that's laid open ultimately and you have issues  
17          there.

18          Design circuitry manufacturers, those companies'  
19          trade secrets are not as relevant in the design area as  
20          they are in the process area. Venture capital is an area  
21          where, again, the start-up companies need to get some  
22          protection so they're going to be relying a lot on the  
23          patent portfolio initially.

24          MS. DeSANTI: Could I just ask a follow-up  
25          question there? In saying that trade secrets are more

1 important in the process area than in the design area, is  
2 that because processes are more easily kept secret, or  
3 what explains the different function of trade secret  
4 protection for different industries?

5 MR. THURSTON: I think part of it is processes are  
6 more easily kept secret when you're looking at our  
7 semiconductor manufacturing processes, as a lot of  
8 different processes are involved. I think we have in our  
9 technology database several thousand different processes  
10 for each technology in a generation.

11 But when you look at a circuit design then you  
12 look at how much copper you put in or how you protect the  
13 copper or what have you, that process is important. And  
14 it's harder to reverse engineer processes. It's harder  
15 to determine infringement, in fact, with the processes as  
16 well.

17 MR. BARNETT: Dan, you had some comments.

18 MR. McCURDY: Yeah. A couple of thoughts on this.  
19 First, the issue is always, like the rest of things in  
20 intellectual property, very complicated. So if you think  
21 about a fundamental invention that is extremely important  
22 to a company, let's say it's a semiconductor etch process  
23 that's a fundamental breakthrough that can drive the  
24 price, well, a company then has to think through the  
25 following problem.

1           If I keep it as a trade secret then I have  
2 obviously the exclusive use of it at least for that  
3 period until somebody else discovers it. Now, you have  
4 the countervailing problem that if somebody else  
5 discovers it and you haven't published it, and you're  
6 using it, then suddenly you're blocked from using a  
7 process that you, in fact, discovered.

8           But now you can't because somebody else has  
9 actually filed and there is no prior art that exists  
10 because it wasn't published. So there's that trade-off  
11 particularly in the technology industry.

12           Second is that even if it's a great intervention  
13 I frequently had people in Bell Laboratories who would  
14 come to us and say, "Look, I've got this incredible  
15 invention. Don't you think it's incredible?" We'd say,  
16 "Yes, that's an incredible invention."

17           And they'd say, "We're going to patent it,  
18 right?" And we said no. And they said, "Well, why not?  
19 You said it was an incredible invention. It's going to  
20 help the company." We said, "Yes, it is. The problem  
21 is, it's not discoverable." And they say, "Well, what  
22 does that mean?" We say, "Well, here's this great thing  
23 that you did, like a semiconductor etch process. It  
24 helps save us a lot of money. It gives us competitive  
25 advantage. We implement it and we go through the process

1 of filing this patent application that is going to cost,  
2 depending on where we file and how long we can maintain  
3 the patents, somewhere between \$60,000 and \$200,000.  
4 It's issued and we can't ever figure out whether  
5 anybody's infringing it or not."

6 So patents, unlike the common belief that if you  
7 get a patent, somebody is going to simply stop working in  
8 that area, is obviously wrong. There's lots of  
9 infringers in the world. Some of them knowingly and some  
10 of them not.

11 So if we can't discover it, we don't patent it  
12 because we can't enforce it. That is, we can't enforce  
13 the exclusion and we can't license it because we can't  
14 prove that they're infringing. So why bother? Important  
15 issues like that that help in this distinction between  
16 what to keep as a trade secret, what to patent. Those  
17 are at least some thoughts.

18 MR. BARNETT: Harry?

19 MR. WOLIN: I want to comment on that last point  
20 that Dan made. I think whether or not an invention is  
21 detectable should play a large part in whether or not to  
22 keep it as a trade secret or to go ahead and file for a  
23 patent on that.

24 However, I think there's a lot of other factors  
25 that need to come into that. For example, who else is

1 working in this area and where is innovation in the  
2 industry going? I may not be able to reverse engineer a  
3 part and tell what etch somebody is using but I'll have a  
4 pretty good idea if I look at the outline of the metal  
5 and know what the profiles from various etches are, of  
6 what people do. So it's not absolutely detectable, but  
7 if I can get an idea and I know the industry is moving in  
8 that direction, I'm still likely going to file for a  
9 patent.

10 The other thing that trade secrets are really  
11 being used for quite a bit these days are to cope with  
12 the change in employment. Nobody goes to a company and  
13 stays there anymore. Everybody hops around and goes from  
14 one place to the next.

15 So where we see trade secrets coming up most in  
16 our industry is in employees jumping from one company to  
17 another and being able to protect those things they take  
18 with them. Back in '99 and 2000 when the startups were  
19 really the thing to do, nobody ever went out from a big  
20 company and went into a startup that was something unlike  
21 what they were doing at the big company, but they went  
22 and they did what they knew. So trade secrets were very  
23 important for the big companies because that is how you  
24 could protect those secrets and those things that people  
25 were taking with them.

1           MR. BARNETT: I might go to Rosemarie and then we  
2 might go to a break after that.

3           MS. ZIEDONIS: I just wanted to underscore how a  
4 lot of these comments bring us back to probably what Wes  
5 Cohen presented with the results of the Carnegie Mellon  
6 study that he did with Dick Nelson and John Walsh, really  
7 emphasizing the importance of trade secrets as a  
8 mechanism for protecting innovation.

9           That said, I just wanted to qualify two things  
10 coming out of that. One is that the way that that survey  
11 was written and the way that some of this discussion is  
12 going, it's not clear whether we're talking about  
13 substitutes or complements in the sense that what I hear  
14 George saying is that "Well, we really rely on trade  
15 secrets early in the process," and then you may be  
16 generating patents at that second stage. That's very  
17 different from, "We rely on trade secrets instead of  
18 patents."

19           So I just wanted to bring us back to the results  
20 of the survey that was across industries and did  
21 underscore the importance of secrets. But we shouldn't  
22 imply from that that it is a substitute mechanism.

23           MS. DeSANTI: Although I guess I heard, Dan, that  
24 part of what you were saying was in some cases trade  
25 secret is a more appropriate way to protect than patents.

1 MR. McCURDY: Yeah. I think there were two  
2 elements. One is in some cases I think that that's true  
3 but there are also some risks that you run in making that  
4 decision. And so it is always a very complicated  
5 decision based on all of those factors.

6 If I had to come down to a generalization that  
7 applies to most of what we have done, I would agree with  
8 Rosemarie. I think that it is more that patents and  
9 trade secrets are more complementary than they are  
10 substitutes for one another.

11 And the fact that in spite of what the  
12 Constitution tells us and the body of law teaches us, the  
13 fact is that patents seldom teach enough so that someone  
14 can actually go out and actually do the invention without  
15 some additional work.

16 I mean, they are extraordinarily complicated  
17 innovations and so frequently what happens in modern  
18 licensing practice is that increasingly companies will  
19 actually license know-how, that is, trade secret and  
20 patents to help spur innovation by the potential or by  
21 the licensee. It helps competition because it helps  
22 other people enter a space more quickly than they  
23 otherwise would.

24 It helps the licensor because the fact is that no  
25 matter how good your company is some significant amount

1 of the time you're still going to lose. And by licensing  
2 and putting the technology into the hands of somebody  
3 else with an appropriate reasonable royalty, even when  
4 the company or licensor loses, it wins.

5 MR. BARNETT: I think this would be a good time to  
6 go for a break. Why don't we meet back at 11 o'clock --  
7 11:05.

8 **(Whereupon, a short recess was**  
9 **taken.)**

10 MR. BARNETT: We're going to go ahead and get  
11 started. We're going to be messing with the microphones  
12 a little bit. We're having some trouble with getting  
13 some volume out of the ones at the table, but we're  
14 fairly certain that Harry's over at the podium is going  
15 to work fine while we're working on it so we're going to  
16 go ahead and start with Harry Wolin from AMD. And I  
17 think he's ready.

18 MR. WOLIN: I am ready. Thank you. I really have  
19 one goal for this presentation and that's to make sure I  
20 don't get handed a note by Susan. I will try to move  
21 through this quickly.

22 I want to change, really, the direction that  
23 these hearings have been going and rather than talk about  
24 how many patents we have got and what we use them for,  
25 other than to say we're as guilty as everybody else and

1 we've got a lot of them, I want to talk a little bit  
2 about standard setting in the context of our business.

3 And the one thing I really want you to understand  
4 is that in the X86 microprocessor, business standards are  
5 incredibly important because the X86 is a defined  
6 instruction set, a defined technology.

7 And to participate in that platform you have to  
8 be compatible with a number of other players that make up  
9 the platform. So, for example, there's not only the  
10 microprocessor but there's a chipset. There's a  
11 motherboard. There's all the buses that go between all  
12 those parts. And they've got to be able to work  
13 together.

14 So really what you're seeing in the industry,  
15 frankly, where a number of years ago there were quite a  
16 few architectures out there, now there's really only a  
17 couple of instruction sets. And the industry is moving  
18 more and more toward the standardization of interface  
19 specifications.

20 And typically, standardization occurs in a few  
21 different ways: open bodies, that's the IEEE, JEDEC  
22 types of standards bodies, everybody's welcome; closed  
23 bodies which are basically set up by certain members of  
24 an industry group, but not necessarily everybody in the  
25 industry gets to participate; and then de facto standards

1 are set up.

2 De facto standards are set up in a couple of  
3 ways. Those companies with market power are able to set  
4 them by making some technology changes. Sometimes he who  
5 has the best mousetrap is able to create a de facto  
6 standard. So as with all, some good, some bad.

7 As we all know, there are some significant  
8 benefits for the entire industry in creating standards  
9 both for developers of the standard and for consumers.  
10 We all know where we're going to play at that point.  
11 Rather than having things competing in the industry from  
12 a technology standpoint, we can compete based on  
13 performance and not have to go through the extra steps of  
14 trying to get people to buy into the various platforms.

15 Does that hinder competition? I guess an  
16 argument can be made there, but typically there are a lot  
17 of benefits and I won't go through each of them. I think  
18 this is in some handouts as well as up there for you to  
19 read.

20 In an open standard, like anything else it can be  
21 abused, but where I see the most room for abuse, frankly,  
22 is in closed standards and in de facto standards just  
23 because of a simple point: not everybody gets to play.

24 So there's a lot of room for abuse and I don't  
25 mean to go ahead and say that these types of standards

1 are bad. I'm just saying there's more room for abuse  
2 there. So when we're talking about closed standards,  
3 there's a lot of things I'm concerned about that  
4 potentially create room for abuse.

5 There's typically hierarchical membership levels.  
6 We have promoters. We have adopters. Not everybody is  
7 treated equally, where in an open standard typically what  
8 you have is a group that makes the rules, although  
9 somebody in the group may have a little more power than  
10 somebody else the group, as a whole or a subset of that  
11 group, really gets to point out who gets to play what  
12 role. So it's not a small group of companies or a single  
13 company deciding who gets to do what.

14 The hierarchical membership levels are especially  
15 concerning to me when not only do they tell you who gets  
16 to do what, but everybody gets different licensing terms.  
17 Frankly, some of the more egregious terms I've seen in  
18 some standard setting bodies include a company that is a  
19 promoter getting to license their technology on fair and  
20 reasonable terms while somebody that is an adopter has to  
21 throw theirs into a patent pool, royalty-free. So I  
22 think that's something where there's just a lot of room  
23 for abuse and something that basically screams for  
24 regulation, frankly.

25 In the closed standard settings, by definition of

1 it being closed, or by virtue of it being closed, you're  
2 always going to have competing standards. So there are a  
3 lot of incentives for competing and rival standards.

4 And also this last bullet really goes through  
5 those within the standards body based on the hierarchical  
6 membership as well as those outside, and that is timely  
7 access to the technology. Not everybody gets the same  
8 thing at the same time, and that can potentially be very  
9 abusive.

10 Talking a little bit about de facto standards, I  
11 think it's no secret that in the PC and server  
12 industries, Intel and Microsoft dominate it.

13 I can honestly say I have no desire -- I have  
14 some desire but I have no ability to put the thing up  
15 that says AMD is number one. We're clearly number two in  
16 the industries we participate in. We're pushing to get  
17 there but we're not quite there yet.

18 Basically, decisions by any dominant firm can  
19 often lead to de facto standards. A firm with market  
20 power really gets to go where they want. If Intel in my  
21 industry, for example, changes a technology, they've got  
22 a pretty good opportunity to take 80 percent of the  
23 market with them because they're an 80 percent market  
24 player. So that's something that frankly scares me in my  
25 position quite a bit.

1           So again, I want to make the point that change in  
2 and of itself is not anticompetitive and is not bad.  
3 It's just that change can be effectuated for  
4 anticompetitive purposes -- and I think really it's just  
5 something we need to watch and it especially needs to be  
6 watched -- by those with market power.

7           When we have a de facto standard because somebody  
8 comes out with the best technology, I think I'd have a  
9 very rough time telling anybody that that's a bad thing.  
10 That furthers technology. It's a good thing. Everybody  
11 wants to see it.

12           And in a perfect world, that's how it works, but  
13 let's not kid ourselves. A lot of time standards, de  
14 facto standards especially, are driven not because  
15 somebody has the best technology but because they have  
16 market power to make a change.

17           A company with market power also has quite a  
18 broad range in which they can basically abuse a standard,  
19 both with direct competitors and with downstream  
20 developers.

21           For example, in a software case if we're talking  
22 about an operating system, it's very easy for the market  
23 leader to create a de facto standard and everybody really  
24 has to follow along with it because they're in all the  
25 computers.

1           So if somebody has got a competing operating  
2 system, it's extremely difficult to match up to the  
3 operating system that's in there if they have made a  
4 change and that change is not shared.

5           The potential abuse vis-a-vis downstream  
6 developers is a little bit different and that is, who  
7 develops things that go with that software? So if there  
8 is a discrepancy in who gets what information first, we  
9 have quite a bit of potential for abuse there.

10           If competitor A in the downstream market gets  
11 something first they can obviously come to market quicker  
12 and get the lead in the market and have their product out  
13 first.

14           If their competitor gets something six months  
15 later, a six-month head start in our business is all the  
16 time in the world. It's got the real potential of  
17 excluding somebody completely from a business for at  
18 least a generation.

19           And so I'm on the summary. I haven't got a note.  
20 I'm pretty much there. But I just want to really leave  
21 you with two points, and that is in our industries,  
22 standardization has got significant benefits. It's a  
23 good thing. Open standards are a great thing.

24           However, I think that manipulation of  
25 intellectual property based standards are something that

1 we need to take a look at, we need to keep an eye on and  
2 that they cause a significant regulatory concern. No  
3 notes. I made it.

4 MS. DeSANTI: Congratulations.

5 MR. BARNETT: Thank you, Harry. I think we've got  
6 the mikes working now, at least to some extent. Well, on  
7 that note, with the standpoint of standard setting I  
8 might throw Harry's comments out to the panel with the  
9 idea that we've got some other industry representatives  
10 besides the semiconductor industry.

11 And one thing I'm interested in is the role that  
12 patents play in the standard setting process and whether  
13 they conform with the standard setting process or hinder  
14 it or how that ends up coming about? Does anyone have  
15 any thoughts? Dan?

16 MR. McCURDY: Maybe I'll look at it backwards and  
17 work our way into the standards process. I don't know  
18 that companies necessarily innovate with the idea, at the  
19 time that they start innovation, of driving a standard.  
20 That is, most technologists, what turns them on is the  
21 development of technology that they have knowledge and  
22 interest in.

23 And sometimes you get really lucky and you end up  
24 with a technology that is particularly important. It's a  
25 breakthrough of some sort. It makes a significant

1 contribution to the evolution of the technology, and it  
2 is precisely those kinds of technologies that are useful  
3 in standards processes because obviously you want the  
4 standards at the highest possible level of technological  
5 innovation, not an incremental bottom.

6 So from my perspective, if that's the objective  
7 then what you end up with are practical dilemmas in the  
8 standards process. So for the most part I think the  
9 observations that Harry made I agree with. I always hate  
10 to generalize because it's a very complicated industry.  
11 But I think that many of the observations I would  
12 certainly agree with.

13 At the same time you have people who are quite  
14 junior inside of a company frequently sitting in  
15 standards processes. They are highly unaware of a lot of  
16 the other activities that are going on at the company.  
17 They may be highly unaware of a lot of the patents that  
18 exist or the applications that exist within a company.  
19 And so then you get into the practical issues which are  
20 the complicated ones, again, that drive this process.

21 No one disagrees that there shouldn't be nasty  
22 behavior in standards processes. You have to avoid those  
23 kinds of things. Collusive behaviors are bad; all those  
24 sorts of things are bad.

25 If a company knows about a patent, knows

1 explicitly about a patent that's in their holding that  
2 affects the standard, certainly it ought to be disclosed.  
3 But what happens in the practical scenario is where  
4 someone doesn't know. Those are the kinds of issues that  
5 I think are the tough ones to conquer in this arena, but  
6 you can't throw the baby out with the bath water.

7 The fact is innovations are important to  
8 standards. Patents are therefore the result of that  
9 innovation and are important to standards. We have just  
10 got to find rules that allow these things to be disclosed  
11 when they are known to be sure that they are not used  
12 against someone in an unfair manner, that they are open  
13 to all under fair and reasonable terms. And if we do  
14 those things I think we'll end up with a best of all the  
15 worlds.

16 MS. DeSANTI: Well, let me ask a follow-up  
17 question because we heard some out in Berkeley about  
18 whether there should be a duty to disclose, which is the  
19 practical issue that you are raising. Should there be a  
20 duty to disclose? Is that a practical way to go from a  
21 business perspective?

22 MR. McCURDY: It's hard.

23 MR. WOLIN; I think the answer for one who chooses  
24 to participate in the standard -- I mean these are  
25 voluntary bodies. People don't get dragged into them

1           unwillingly -- there should be a duty to disclose.

2                     The point that Dan made that I thought was very  
3           valid is we've got portfolios of thousands of patents.  
4           You don't know every patent you've got that's going to  
5           potentially agree on the standard.

6                     But typically in the open standards, the IEEE,  
7           JEDEC, you brought on yourself the requirement that you  
8           license under fair and reasonable, sometimes  
9           nondiscriminatory terms. So I don't know that anybody  
10          licenses per patent for standards.

11                    Typically, people will license their portfolio to  
12          be used in the standard. I think that takes care of the  
13          problem somewhat, but I think, in short, you should be  
14          required to disclose those you know about and you  
15          probably should be required to license those that you  
16          commit to the standard. You should not be able to come  
17          back for a second bite.

18                    MR. ZANFAGNA: I would just agree with that. I  
19          would just add that with a company the size of Honeywell  
20          it is not uncommon that the left hand is not talking to  
21          the right hand. And so, I know we participate in a lot  
22          of standard setting organizations all across the country,  
23          all over the world, some of great significance, some of  
24          minor significance.

25                    And it is definitely the case that while I would

1       agree that it's appropriate and I would suggest I think  
2       Honeywell does try and disclose a potential relevant  
3       technology it may not always be the case that the person  
4       involved is aware of that. That's something that has to  
5       be, I think, more vigilantly addressed, quite frankly, if  
6       it is a continuing problem.

7               MR. BARNETT: Taking off of what Rosemarie had to  
8       say, just about how patent trends are seemingly on the  
9       rise and are increasing, in a lot of industries for that  
10      matter, but also in the semiconductor industry, does that  
11      simply complicate the process and then at a certain point  
12      does it become virtually impossible to be able to detect  
13      all your patent portfolios?

14             MR. THURSTON: I think initially it's probably so.  
15      When companies, particularly well established companies,  
16      had significant portfolios -- we found the same thing at  
17      TI, that we didn't understand.

18             Today as you look at intellectual capital  
19      management to which most sophisticated companies are  
20      adopting using IT -- we're doing this at TSMC -- over  
21      time you should be able to better understand, forecast,  
22      evaluate your portfolio and know what's in there.  
23      Certain companies are still not in that position, but we  
24      anticipate that over the next three to five years we will  
25      be in a much better position to address that issue.

1           Also, by creating a new CTO office, we have been  
2           able to help coordinate this whereas before we did have  
3           a fairly unwieldy R&D structure located in different fabs  
4           and facilities and different patents were coming out.  
5           And oftentimes what was being filed by the U.S.  
6           headquarters, Taiwan didn't know. But again, part of  
7           that is the process that you can establish to help  
8           address that issue.

9           MR. WOLIN: I think, frankly, I disagree with part  
10          of that. I think we can do better in evaluating our  
11          portfolio, knowing what's in there and with the IT  
12          advances that are being made, we're more able to do that.  
13          But even if we know the patent, we're only one attorney  
14          away from a different reading of it.

15          So whether it applies on the standard or not I  
16          may say one thing, Dick may say another on the same  
17          patent, same claim, in regard to any particular standard.

18          MR. THURSTON: And I agree with Harry on that.

19          MR. BARNETT: Sort of shifting gears a little bit,  
20          but still on the same theme, from the standpoint that all  
21          these patents are out there and we're seeing increasing  
22          patent trends, cross-licensing seems to be and licensing  
23          seems to be a method of dealing with these problems both  
24          in the standard setting context and just in normal  
25          business.

1           Could someone go through the licensing process  
2           and how it relates to their business, particularly from  
3           the standpoint of dealing with a lot of patents out  
4           there?

5           MR. McCURDY: Well, it is my business so I'll do  
6           it from a general perspective so that at least we can see  
7           whether there's general agreement on the licensing  
8           process.

9           First of all, at least in technology industries  
10          -- and it's very important to distinguish among  
11          industries because the licensing practices can be  
12          significantly different -- obviously, they are quite  
13          different in the case of a pharmaceutical company, as  
14          Gary pointed out earlier, who generally is granted a  
15          patent and uses that patent to exclude others during the  
16          period of that patent. It's quite different than in most  
17          what I'll call high-tech, non-life sciences companies:  
18          telecommunications, information technology,  
19          semiconductors, software and so on.

20          In those industries the evolution has been a very  
21          clear one from the use of patents, up until 15 or 20  
22          years ago, generally to achieve freedom of action -- that  
23          is, let's make sure that we all license one another so  
24          that we can go do whatever we want to in terms of product  
25          or services development and not worry about whether we're

1 going to get an infringement suit, with very little money  
2 changing hands as the primary objective -- to more recent  
3 practice which is, let's ensure freedom of action, but  
4 when there is a relative imbalance in the portfolio by  
5 quality or size in terms of use of the potential licensee  
6 -- both directions -- as those patents affect the other  
7 licensee, let's make sure we correct for that with a  
8 change of money.

9 So the practice is a fairly straightforward one.  
10 You take a portfolio, you dissect the portfolio down to a  
11 relatively small number of patents out of a whole  
12 portfolio. In general, only one to two percent of an  
13 entire portfolio are used in an active patent assertion  
14 or patent licensing program.

15 In the case of Lucent, for example, we had 28,000  
16 worldwide patents, almost 12,000 U.S. patents, and we ran  
17 a half a billion dollar a year licensing program by  
18 having selected 200 of those patents as those most likely  
19 used throughout the industry. We licensed all of them.  
20 We just used those 200 as the ones we looked for  
21 infringement on.

22 Once you do that, you figure out who's  
23 infringing. It's a very complicated problem. You put  
24 together a proof case with respect to that. You approach  
25 the individual and say, "We think that we have something

1 that you might have some interest in." That's the code  
2 word for "We think you're infringing." There's a  
3 discussion that ensues.

4 The process takes one-and-a-half to two years on  
5 average where you have now given them some patents to  
6 look at. The next meeting they will give you some  
7 patents to look at. The negotiation goes back and forth.  
8 You say in the end, look we think that at "X" royalty  
9 rate you owe us \$40 million a year. They'll say, well,  
10 at an equivalent royalty rate on our patents, that your  
11 products are worth \$30 million a year.

12 You have a \$10 million differential and you  
13 settle for something that's less than that and you try  
14 and get a settlement without having to sue each other.

15 Generally, you settle without having to sue each  
16 other. In cases of companies I have been involved with,  
17 greater than 99 percent of all patent discussions were  
18 resolved without any filing of a lawsuit at all. And in  
19 those rare cases where a lawsuit is filed we settled them  
20 almost always before they go to trial. Having said that,  
21 we are always perfectly prepared if necessary to go to  
22 court. We just try and do everything we can to avoid it.

23 MR. BARNETT: Rosemarie.

24 MS. ZIEDONIS: I just thought it was important to  
25 qualify that I think that the "we" in your sentence was

1 really coming from your experience at Lucent or AT&T,  
2 where a large company's perspective and your ability to  
3 settle may be very different.

4 MR. McCURDY: Yes, it's in my perspective which is  
5 IBM and Lucent. IBM is even much rarer than Lucent in  
6 terms of the number of cases that have been filed.

7 MS. ZIEDONIS: The other thing that I just wanted  
8 to point out is that even though we have lots more  
9 patents, that cross-licensing is by no means new to this  
10 industry. I mean, far earlier than the formation of the  
11 Federal Circuit Court or a lowering of the nonobviousness  
12 standards or whatever it is that's being discussed here,  
13 that the widespread licensing of the old Bell Labs  
14 patents, Western Electric patents, Fairchild  
15 semiconductor, TI, and they were widespread and common  
16 practice.

17 And at least in that study I tried to trace  
18 litigation patterns before and after this shift and the  
19 strengthening of property rights. And based on the work  
20 that I have done thus far, I don't see any difference in  
21 kind of established firms versus established firms suing  
22 each other. I mean, it's unusual in the early period.  
23 It remains unusual in the latter period relative to what  
24 they're spending in R&D and other kind of ways of  
25 normalizing things.

1           But two things that, at least, the preliminary  
2 numbers suggest, however, is that we do have more firms,  
3 more of these high-tech firms that are more in the game,  
4 the pharmaceutical or biotech company, in that they need  
5 to try to exclude others. Who they're excluding are  
6 other niche market rivals. So you have an explosion of  
7 small firm lawsuits, the Altera versus Xilinx, these  
8 types of cases that have crept up. The second main trend  
9 that at least seems to be creeping up thus far is more of  
10 these lawsuits brought by the "L" word that I hear by  
11 companies that are specializing --

12           MR. McCURDY: That's a foundation not a company.

13           MS. ZIEDONIS: Yes. That's true. But since about  
14 the mid-1980s I do think that you see more case filings  
15 by individuals or by organizations, foundations that are  
16 not active in the product markets.

17           MS. DeSANTI: Have you seen indications of why  
18 that's the case and what's the motivation and how does it  
19 work?

20           MS. ZIEDONIS: I'm from a business school, right,  
21 so I have learned now the answer to that question quite  
22 quickly and that's there are profits on the table. The  
23 Lemelson Foundation, I think, has made a very successful  
24 business from setting licensing fees so that balancing  
25 payment, you set it low enough to where it's below the

1 cost of actually going to court or the managerial time  
2 that it would take to basically fend off the lawsuit.  
3 That, to me, is perhaps a concern if you have a lot of  
4 these patents that could be falling right below that  
5 threshold.

6 MR. McCURDY: Just to clarify Rosemarie's comment,  
7 balancing payment in the industry is generally the word  
8 that's used when there is assertion and counterassertion  
9 as part of a licensing program. That is, you owe me X; I  
10 owe you Y. Let's figure out how to do something and make  
11 everybody's life comfortable with respect to attaining  
12 that freedom of action.

13 In the case of that particular "L" that's been  
14 mentioned by my colleagues, the issue is there really  
15 can't be a balancing payment per se because there is no  
16 counterassertion capacity.

17 And those are the ones when we have clients who  
18 ask us how can you help us? In those instances, the only  
19 answer is we can help you by ensuring that you're getting  
20 a fair return on your own investment so that if and when  
21 you get these kind of assertions and, in fact, there's  
22 infringement, at least you have something to pay for it  
23 with. It's a very difficult problem.

24 MS. DeSANTI: Are you seeing increasing numbers of  
25 this? I'm asking because some of what we heard in

1 Berkeley was a concern that as some companies have folded  
2 there are more patent assets on the table to be acquired  
3 and therefore it's easier to find that there are  
4 companies who are building a business around patent  
5 assertion in that kind of nontrading situation. And so  
6 I'm interested in your views on this. Well, this is  
7 going to be good.

8 MR. McCURDY: That's a good question.

9 MS. DeSANTI: Why don't we just go around the  
10 table. We'll start with Rosemarie and work our way  
11 around.

12 MS. ZIEDONIS: I just have a surprising-to-me-at-  
13 least fact. When I was doing this work for the National  
14 Academies where I had this list of about 136 companies, I  
15 was like, "Oh, what lawsuits, what patent lawsuits have  
16 they been involved with that have been filed in the  
17 United States?" Well, when I actually looked the patents  
18 over, I think a third of the lawsuits that have been  
19 filed were about intellectual property that had not  
20 originated from the company itself -- for example, the  
21 old Mostek patents that became acquired by ST  
22 Microelectronics that then ST Micro enforces against and  
23 uses as basically licensing revenues quite successfully.

24 Or another example, when a company like Seeq sold  
25 off its particular production line with intellectual

1 property with that to I believe it was Atmel. I could be  
2 wrong about that. But then that company uses those  
3 assets to enforce those rights against a market rival.  
4 And my understanding is that a lot of these acquisitions  
5 of the physical assets are far more valuable if you are  
6 able to use that to exclude a rival that you didn't have  
7 those patents yourself.

8 So I was just -- on the face of it, two-thirds of  
9 those cases were about patents that the companies  
10 themselves had generated through internal R&D and a third  
11 of those cases, a third of the lawsuits, were about  
12 externally generated R&D which I personally found, one,  
13 surprising and, two, indicative of this kind of trade for  
14 patents that's emerged or become more developed, should I  
15 say, in the last ten years.

16 MR. THURSTON: I agree and I think we have seen,  
17 and believe I have before joining TSMC in private  
18 practice, a significant increase in this area. We  
19 represented in the law firm several companies that were  
20 approached by nonoperational companies of that nature  
21 that were just trolling for patents.

22 Currently, we have, I think, eight matters that  
23 are pending at TSMC. Four of them are by companies.  
24 Now, two of them are Lemelson-related that don't have any  
25 business, any operations rather, other than generating

1 revenue.

2 So I think it has been on the rise as companies  
3 have been demised through economic inefficiencies or what  
4 have you, there a number of increasing companies out  
5 there buying portfolios. We as a company are looking at  
6 it and have several relationships to acquire portfolios  
7 from companies that are going under as well as with  
8 universities to try to improve our patent position  
9 vis-a-vis other companies.

10 I'd also like to add another point with respect  
11 to the licensing picture. Again, based on industry  
12 characteristics cross-licensing may not be all that  
13 effective and certainly for us as a process manufacturer,  
14 cross-license does not give us the ability to take that  
15 other company's portfolio and apply it against another  
16 company or a dozen companies that come after us.

17 So what we may be looking at increasingly and  
18 what we are looking at increasingly is, again, somewhat  
19 related to patent pooling, but joint development, joint  
20 research programs where we go in we go in with major IDMs  
21 that have patent portfolios.

22 As we help them to develop, we are the leader in  
23 developing those new technologies, then there is this  
24 cross sharing of portfolios and the ability for us to  
25 take a portfolio and to apply that vis-a-vis some other

1        company. So its not just the traditional cross-licensing  
2        approach, that may, in fact, develop as a trend in  
3        certain aspects of industry but not all industries.

4                MR. WOLIN: I think the answer to your question is  
5        an absolute yes. There are more people out there not in  
6        the industry trying to assert patents. And it's become  
7        sort of a cottage industry by itself.

8                And not only are people trying to do that on the  
9        assertion side, what we're seeing quite a bit is a lot of  
10       companies coming to us with portfolios and patents trying  
11       to sell them which sometimes is a thinly veiled threat --  
12       "Hey, buy them. This way you won't have to face them  
13       later." And sometimes it's, "Look at all the money we  
14       can make you if you buy this portfolio." So I think if  
15       you go back a number of years in the semiconductor  
16       industry, patents were the result of R&D and then  
17       licensing became a way of freedom of action and with a  
18       little luck some return on your investment. Now, it's  
19       almost getting to the point where patents are becoming  
20       the industry themselves, separate form the technology  
21       part of the game.

22                MR. BARNETT: George.

23                MR. BRUNT: I think we'll probably see more. At  
24        least during recessionary times like this what happens is  
25        the markets move out and so venture capitalists have to

1 make a decision about whether they're going to keep a  
2 company alive for an additional two years while they wait  
3 for the market to develop or sell off the patent  
4 portfolio and cut their losses and go on.

5 And you're going to see a lot of that in our  
6 current -- like I said, there's a lot of innovation  
7 that's out there in small startup venture capital-funded  
8 companies that apply for and receive some very good  
9 patents. But the only way the VCs are going to be able  
10 to recoup their investment is through a patent licensing  
11 program, either selling the patents or exploiting them.

12 MR. McCURDY: I think just one follow up to that.  
13 In our company we have had a lot of interest by companies  
14 of the ilk, smaller companies, bankrupt companies, and so  
15 on, who said, "Gee, we heard about your company. Can you  
16 help us?" And the answer in general is no, we can't.  
17 Again, sometimes for very practical reasons.

18 The reason that we are able to help companies  
19 extract some value from their portfolio is that they tend  
20 to be very significant innovators. If you end up with a  
21 portfolio that's two or three or five or ten patents, the  
22 licensing discussion is extraordinarily hard because what  
23 a licensee wants to get to, ultimately, is they want to  
24 feel that they are getting value. And they want to  
25 effectively develop a relationship so that this freedom

1 of action is achieved. And they like the fact that they  
2 are dealing with someone who is a significant innovator  
3 and will continue to innovate.

4 So, if you end up with a company that only has a  
5 few patents or a bankrupt company, yes, it's true that  
6 there will be people in the industry who might pick them  
7 up, but I would contend that you're much more likely to  
8 see those end up in court, in litigation, than what I  
9 call the higher level set of discussions where you have  
10 significant and continuing innovators who are spending  
11 billions of dollars a year and can establish these kinds  
12 of relationships at a business level. So that's going to  
13 be the issue.

14 MR. THURSTON: I was going to make really kind of  
15 the same point. I agree with Dan in that comment, and on  
16 the VC side we did see, and as I was advising a number of  
17 VC firms, a significant increase in the late '90s and the  
18 last several years of filing UCC 1s, et cetera, against  
19 the patents, intellectual property.

20 But the problem that those companies had, the  
21 VCs, they're not in the business of managing portfolios.  
22 There is limited criticality of mass and a lot of times  
23 it just costs too much more just to even maintain those  
24 portfolios.

25 So I think they've gotten a little bit away from

1 that, but there are a number of companies out there that  
2 have lined up with some key VC firms that are obtaining  
3 those intellectual property rights, the conduit through.  
4 So I think it is an issue to address but I think Dan's  
5 point is a much better one.

6 MR. BARNETT: Gary.

7 MR. ZANFAGNA: I just had a quick comment. We  
8 obviously vigorously enforce our intellectual property  
9 rights against others we think are infringing. It's an  
10 active program.

11 But the conversation that may be indicative of  
12 the different entries that we play in, but I'm not  
13 familiar that we are trading in intellectual property  
14 rights and in entire patent portfolios.

15 In fact, I don't believe that we engage,  
16 regularly in any case or typically, in the sale of  
17 cross-licensing patent portfolios as I think we  
18 selectively cross-license where we feel we need to.

19 I could be wrong, but I don't believe we trade  
20 like it might just be an industry issue, that we don't  
21 play in these markets where it's becoming a commodity  
22 almost, is what you're saying. I just thought I would  
23 add that. It seems to be a little bit of a different  
24 scenario for Honeywell.

25 MR. BARNETT: That brings up maybe a follow up

1       that I might want to ask Harry. Harry mentioned how  
2       patents started. He recalled how patents used to be more  
3       of a tool for freedom of access and then they shifted  
4       almost to a product of themselves. Where do you see the  
5       motivation behind the change in the role of the patents  
6       in that sense?

7               MR. WOLIN: I think you have to look at it from  
8       two different perspectives. The first perspective is  
9       those within the industry. The second perspective is  
10      those who are really not industry participants but are  
11      basically asserting patents for money. The Lemelson  
12      Foundation and a number of others. Frankly, a lot of the  
13      change outside started with Lemelson Foundation. I think  
14      they came onto the picture in the mid- to late-'80s if I  
15      remember right and had this huge portfolio and read it on  
16      all sorts of things and were very successful.

17              When others saw that model, all of a sudden if  
18      you went into the patent office things were very  
19      different. You had hoards and hoards of people sitting  
20      there going through the files looking for patents that  
21      some obscure inventor had that they could go buy and it  
22      was almost a get rich quick scheme.

23              In the industry, I think, things changed. If you  
24      look back mid-'80s, prior, I think there was a lot of  
25      freedom of action and everybody just competed and it was

1 the same group of players. After that you have seen a  
2 lot of growth in the industry and you have seen a lot of  
3 new companies come in.

4 And I think the focus turned more from making a  
5 reasonable amount of money and moving forward with your  
6 business that was going to be there for 50 years to a new  
7 group of CFOs coming in saying, "I'm going to make money  
8 off of every asset I have," and patents became one more  
9 asset that we had to generate a return from. So, '85,  
10 '87, somewhere in there is sort of where I saw the  
11 changes go in.

12 MR. BRUNT: I think in the same time frame there  
13 has been a lot of globalization that's occurred, too, and  
14 that's increased the cost of maintaining that and so CFOs  
15 have also looked at and said, "Wait a minute, are we not  
16 deriving revenue from this? This is taking large amounts  
17 of revenue. If it's an asset that has value, we need to  
18 be recovering some revenue from that asset."

19 MR. WOLIN: Yeah. I think one quick follow up.  
20 The other thing that happened around that same time frame  
21 is what Dick mentioned earlier. That is where TI was  
22 going underwater and their way to save their company was  
23 to license patents.

24 And other companies out there -- I was at  
25 Motorola at the time -- we had always licensed patents

1 for what today would be relatively cheap rates. And it  
2 was good money, but cheap by today's standard. But then  
3 we saw the kind of money and TI was getting for theirs  
4 and -- albeit we were in a different position. We  
5 weren't going to save the company at that time -- it was,  
6 "Hey what are we leaving on the table here?"

7 MR. McCURDY: One of the things that I would  
8 encourage some additional work on, and Rosemarie, you may  
9 know of people who are looking at this, but while I'm not  
10 at all an expert, I've been following this activity  
11 requirement in the accounting community to account for  
12 intangibles. And I don't know if you've been following  
13 this but it's going to be a very interesting issue that  
14 emerges because once the intangibles are actually carried  
15 on the balance sheet then management and boards of  
16 companies now have the burden of figuring out how they  
17 are going to actually gain a return on those intangibles  
18 which are now carried. If you don't do it, you're  
19 perhaps in breach of your fiduciary responsibility.

20 So I suspect that as a result of these changes,  
21 what I call responsible prudent efforts to ensure that  
22 companies are getting a return on the significant  
23 intellectual property assets is very likely to occur. We  
24 might be several years from that by the time these are  
25 actually solidified, but I'm pretty confident that that

1 is going to happen as a result of that activity.

2 MS. ZIEDONIS: Just to highlight that, the largest  
3 body of work that I'm aware of on that very effort is at  
4 NYU with Baruch Lev. I know that he's been organizing a  
5 series of conferences on that very topic and has been  
6 doing a series of studies also in conjunction with the  
7 SEC.

8 The other point that I just wanted to clarify or  
9 perhaps contribute to, one, I echo what Harry said about,  
10 well, what happened there around '85 or to the '87 time  
11 frame. And I think the importance of TI really paving  
12 this way that, well, the value of patents can be  
13 separated from the product market, and that there is  
14 money on the table was an important demonstration for  
15 companies in managing intellectual property but also for  
16 the same independent inventors like Jerome Lemelson and  
17 the like.

18 So, I think that lesson was learned across patent  
19 owners regardless of whether you're a company or a  
20 university or an independent inventor.

21 The other important demonstration event that  
22 happened around that same period, however, is, of course,  
23 the shutting down of Kodak's facility. Well, not only do  
24 we have this potential upside, but now if I'm investing  
25 the what I now hear is \$4 billion in a facility being

1 concerned about the threat of holding production for two  
2 weeks when that facility is going to last you, what, five  
3 years?

4 MR. THURSTON: If.

5 MS. ZIEDONIS: That's a large sum in multiple  
6 millions of dollars so there's a real cost/benefit  
7 analysis that is really driving, perhaps, patenting from  
8 both sides.

9 MS. DeSANTI: Is the implication of what you're  
10 saying that there's more defensive patenting as a result  
11 of the Kodak-type demonstrations?

12 MR. WOLIN: I think there's more patenting,  
13 period. Offensive, defensive, you name it.

14 MS. ZIEDONIS: To answer your question, I would  
15 agree with that. I mean, the lesson then that I would  
16 learn from that was that you can see why there would be  
17 an incentive to patent for more defensive reasons, but  
18 you can also see why from the business perspective you  
19 would also want to pay more attention to patenting from  
20 the offensive or the market share or just revenue stream.

21 It's going to be interesting to see how exactly  
22 you're going to be able to disentangle value of  
23 intangible assets from potential products that might be  
24 coming down the road five, seven years from now where  
25 that value's not going to be really revealed in the

1 product form, and is a highly risky, uncertain thing.  
2 But I'll leave that to the accountants.

3 MR. WOLIN: Being that we're back on quantity I  
4 think there's one point I'd like to make. In the  
5 semiconductor industry, as much as quantity is picked up  
6 I don't think it can all be related to improving your  
7 patent portfolio. I think a lot of it has really come in  
8 for other reasons.

9 It became a great incentive for engineers, the  
10 number of patents that we issue end up in our marketing  
11 materials. I actually went in at one point and said we  
12 should file less and I'll give back some of my budget.  
13 And I was basically kicked out and they said, "We'll tell  
14 you what you spend. You just go get us patents."

15 It wasn't improving the portfolio. Management  
16 understood that these incremental patents weren't  
17 improving the portfolio, but at the same time it was  
18 great press releases and it was great incentive to hire  
19 new engineers and it was great incentive to retain  
20 employees. So for that reason it was worth spending the  
21 incremental dollars to management.

22 MS. DeSANTI: Well, we have little time remaining  
23 but I would like to throw out a large question and just  
24 get some observations on it. We've been talking a lot  
25 about patenting in relation to innovation. What about

1 competition, the role of competition, in relation to  
2 innovation in this industry?

3 And I would just give you, Harry, an opportunity  
4 to bring in any points related to your standard-setting  
5 issues that you raised that may be implicated when you  
6 talk about competition and the reliance, the need for  
7 compatibility and standard-setting in order to innovate  
8 to the next level, next generation.

9 MR. WOLIN: Well, as we know, I think, general  
10 antitrust concerns and the general patent laws go head to  
11 head. So the question is where do we find that happy  
12 medium and how do we effectively create no monopoly while  
13 keeping in effect the patent monopoly? And I sure wish I  
14 had an answer.

15 MS. DeSANTI: We were expecting one from you.

16 MR. WOLIN: But I just think you have to have the  
17 patent right. You have to be able to innovate and I  
18 think a lot of the concern really comes in -- you can't  
19 give that right, that patent right when it's -- it  
20 doesn't give you the ability to circumvent the antitrust  
21 laws.

22 And I think it really has to be looked at on a  
23 case-by-case basis and standards of, certainly, who has  
24 the market power comes into it. But I just don't know  
25 and I don't think there can be any hard and fast rule on

1           how we address this. Sorry for all that enlightenment.

2                   MS. DeSANTI: Rosemarie.

3                   MS. ZIEDONIS: This is an equally maybe -- oh my  
4           goodness -- "interesting issue, but who knows the answer  
5           to it" type of comment. I noticed Hal Wegner in the room  
6           and he was kind enough to let me sit in on his  
7           international property law class here at GW probably ten  
8           years ago and one of the interesting twists in the tone  
9           of this debate is that at that time we would have been  
10          sitting in this room really being the large portfolios of  
11          Japanese firms and how that was going to be a barrier to  
12          the small innovative U.S. companies or companies that  
13          lacked experience in Japan.

14                   And that's actually how I got in this funny path  
15          was doing some work on behalf of a congressional  
16          committee on that type of topic. With that kind of  
17          background I find it interesting that we really aren't  
18          questioning to any real extent, I don't see people being  
19          concerned about the role of these portfolios with the  
20          large firm versus a small firm.

21                   Like, is the lack of a large portfolio a problem  
22          for entry into the industry or for competing with the  
23          incumbent firms? And I'll just offer an observation that  
24          from what I understand with semiconductors, part of this  
25          may have just been fueled because the side effect of

1       strengthening patent rights has been that we're able to  
2       raise venture capital and we're competing in areas that  
3       are truly like the input/output devices or even AT cards  
4       and then get acquired by an incumbent firm.

5               The other thing is that we know that the  
6       technological opportunities have been continuing at a  
7       pretty impressive rate in this industry. It's unclear  
8       how this dynamic of competition is going to change if we  
9       reach an era where those technological opportunities  
10      aren't continuing to expand. And thankfully even with  
11      this downturn, I don't think that people are projecting  
12      that in the next five to ten years given the impressive  
13      accomplishments in the industry.

14              MR. BARNETT: That brings maybe a different  
15      question that I want to ask. It reminds me of your  
16      comment on Japanese firms and whatnot. I know that Dick  
17      Thurston has quite a bit of experience dealing with  
18      foreign countries, and I'm just wondering if the  
19      experience is the same in other countries as we're  
20      experiencing here as far as increasing proliferation of  
21      patents. I wonder if you have any thoughts?

22              MR. THURSTON: I think it is. And I think that's  
23      an area that U.S. companies, all companies, need to be  
24      really increasingly concerned about. And I, a number of  
25      years ago, had a very interesting discussion with Bruce

1       Lehman on this point, stressing that need for the PTO to  
2       undertake an initiative similar to Justice on the  
3       antitrust area for stronger cooperation and relationship  
4       in monitoring what these foreign countries are doing in  
5       the patent area.

6                Take Japan today, which as we all know is  
7       suffering economically. One of the largest licensing  
8       organizations, maybe, next to IBM and so forth, is  
9       Hitachi -- 400 strong, constantly analyzing portfolios  
10      and going through their list. We did at TI. We had  
11      first tier, second tier, third tier and now you're  
12      getting down well below that and going after a lot of  
13      different companies as they scan the SEC reports all  
14      sorts of things we're seeing.

15               Our biggest concern, even as a "Chinese" company  
16      and from Taiwan, is the mainland. It's being ignored.  
17      But the efforts that are being undertaken right now --  
18      I've had over a hundred trips to China since '79 -- are  
19      substantial in the area of intellectual property design,  
20      development.

21               In the semiconductor area, you go into the  
22      research and development houses in Shijiazhuang or in  
23      Xi'an and Shanghai -- tremendous efforts and filing of  
24      patents there, kind of subtle sort of thing. They have a  
25      very sophisticated PTO when it comes to electronics, but

1 our industry in the United States, a lot of companies are  
2 ignoring that potential.

3 So as you look at potential for litigation and of  
4 course manipulation in that country of IP to advantage  
5 despite the WTO, that's where I see tremendous concern  
6 and we need to be really on our guard. And these issues  
7 just magnify and are exponentially increased once you  
8 cross the ocean.

9 MR. ZANFAGNA: Two follow-up points real quick.  
10 One to Susan's question, I'll just redirect my point from  
11 before. At least as far as Honeywell is concerned it is  
12 competition that's driving innovation. We don't hire  
13 engineers to hire engineers. We innovate because we feel  
14 we need to to stay ahead in our marketplace.

15 Innovation is driven by competition in all of our  
16 markets. That's how we maintain our positions. That's  
17 how we maintain our competitiveness. That's how we keep  
18 our customers. That's how we please our customers. It's  
19 through innovation. It's through new products. It's  
20 obviously through service and so forth as well but it is  
21 the continuous ability to innovate, to provide new  
22 technology and new products that makes us a strong  
23 company. It's through competition absolutely. On the  
24 international point, I'm not exactly sure what the  
25 overall question was but I'll make two observations.

1 One, our portfolio is very international. We have over  
2 10,000 patents internationally, I think 5,000  
3 domestically and we don't just focus on patenting  
4 technology and products in the United States. We  
5 proliferate our portfolio globally. We have a global  
6 sales presence and it is critical that we are able to  
7 propagate to affect our portfolio around the world.

8 Another observation that I am told is that there  
9 is a gigantic increase in foreign ownership or foreign  
10 filing in the United States. There's a lot of foreign  
11 ownership of U.S. patent rights. That is a whole new  
12 evolution that U.S. companies have to be aware of and  
13 that affects how the patent system works in our country.

14 MR. BARNETT: It looks like we're starting to run  
15 short on time. We started a little late but I would like  
16 to invite anyone to make any closing comments or any  
17 remarks that they might have before we finish.

18 MR. BRUNT: Just a two second summary on that  
19 issue. I think that competition drives innovation.  
20 Limited exclusivity pays for it.

21 MR. BARNETT: Very good. Well, maybe on that note  
22 we will end this hearing. I'd like to thank our  
23 participants very much. So thank you.

24  
25

## 1 AFTERNOON SESSION

2 (1:37 p.m.)

3 MS. DeSANTI: Good afternoon. My name is Susan  
4 DeSanti and I'm Deputy General Counsel for Policy Studies  
5 at the FTC. Thank you so much for coming this afternoon.  
6 We particularly thank all of our speakers for coming this  
7 afternoon.

8 Unfortunately, I have to begin with a couple of  
9 people who were not able to make it. Dean Alderucci from  
10 Walker Digital is sick today, unfortunately, but we will  
11 be hearing from Walker Digital later on in the hearings.  
12 And also Andrew Steinberg from Travelocity.com is not  
13 able to be with us today for business reasons but we're  
14 also going to try to get another shot at getting him to  
15 come and speak with us on another panel. So we're very  
16 glad to have the people we do have.

17 And what I wanted to just start with is a brief  
18 introduction to the topics of the panel. This is  
19 "Business Perspectives on Patents: Software and the  
20 Internet." It's the second panel to address this topic.  
21 The other one was held at Berkeley in February. And as  
22 with the morning panel we will be covering a wide range  
23 of issues relating to patents and competition and how  
24 they spur or discourage innovation. Before we get any  
25 further let me introduce the other government

For The Record, Inc.  
Waldorf, Maryland  
(301)870-8025

1 participants today. To my right is Matthew Bye who is a  
2 wonderful attorney in my shop who has worked very long  
3 and hard in getting in touch with the people for this  
4 panel and talking with them about the issues that they  
5 were most interested in addressing.

6 To my far right is Frances Marshall, the amazing  
7 person at the antitrust division of the Department of  
8 Justice who is organizing and implementing all of these  
9 hearings from their perspective. To my left is Bob Bahr  
10 from the PTO who we're very grateful to have here. And  
11 that sort of rounds out the government participants for  
12 today.

13 I'd like to start by briefly introducing each  
14 panelist and then asking each one after that brief  
15 introduction to just say a bit either about their company  
16 and what their company does so we have a better  
17 understanding of how they're approaching these issues or  
18 the members of their trade association or their research  
19 interests. Let me start with Dan Burk over to my right.  
20 Dan is the Julius E. Davis Professor of Law at the  
21 University of Minnesota law school where he focuses on  
22 intellectual property in the context of cyberspace and  
23 biotechnology.

24 He teaches courses in copyright, patent and  
25 biotechnology law and has been closely involved in the

1 development of the university's new Internet study  
2 center. Professor Burk has held appointments at Seton  
3 Hall University, Stanford Law School and George Mason  
4 University. Dan.

5 MR. BURK: I'm very pleased to be here and I want  
6 to applaud the leadership of the staff, both the FTC and  
7 the DOJ, for holding these hearings which is being  
8 watched with great interest by all of us in the research  
9 community.

10 My personal interests are innovation policy and  
11 how patent law is developed and shapes the nation's  
12 policy. I'm very interested to see what's said today and  
13 what's said at the other hearings.

14 MS. DeSANTI: We'll go to Dan's right to Ed Black.  
15 Ed has been the President and Chief Executive Officer of  
16 the Computer and Communications Industry Association  
17 since 1995. Prior to this, Ed served as Vice President  
18 and General Counsel at CCIA. He has had responsibility  
19 over a wide range of legislative policy and regulatory  
20 areas for CCIA and its member companies specializing in  
21 international trade, competition policy and intellectual  
22 property. And I will note that Ed was with us in our  
23 1995 hearings and we're glad to welcome him back today.

24 MR. BLACK: Thank you. It's a pleasure to be  
25 here. A little bit about CCIA. We have been around for

1 30 years, represent a cross-section of companies,  
2 computer; telecom; Internet; small, medium and large  
3 hardware; servers; software. And the goal is to have a  
4 senior executive roundtable that tries to pull together  
5 very diverse parts of the industry so that when we can  
6 come up with some positions on what are constantly  
7 turning out to be fairly challenging policy areas that we  
8 really do think we have the input from a wide range of  
9 players.

10 Historically, we basically were founded in a very  
11 pro-competitive motivation dealing with both IBM and AT&T  
12 antitrust cases in the early years and have viewed  
13 intellectual property as likewise a critical factor in  
14 promoting the innovation and dynamic growth of our  
15 industry.

16 MS. DeSANTI: Thank you. Next, we're going to  
17 move to Scott Sander. Scott Sander is the President, CEO  
18 and co-founder of SightSound Technologies.

19 After graduating from the University of Denver in  
20 1982 with a degree in business administration, Scott  
21 moved to Silicon Valley where he worked as an investment  
22 analyst for a Menlo Park-based real estate investment  
23 company. In 1987 Scott returned to his native  
24 Pennsylvania to start his first business, Kinetic  
25 Workplace, a management consultancy specializing in

1 workplace innovation. Scott.

2 MR. SANDER: And I'm very glad to be here because  
3 since that time I got together -- I'll tell you a little  
4 story about it later when we get into the more formal  
5 remarks. But I'm really here to talk not about myself or  
6 even our company, SightSound Technologies, but I'm very  
7 specifically here on behalf of an inventor named Arthur  
8 Hair who also happens to be my best friend. And together  
9 we built a company on intellectual property that  
10 specializes in the download sale of movies and music via  
11 the Internet and other networks.

12 MS. DeSANTI: Thank you. To Scott's left is Mark  
13 Webbink. Mark is the Senior Vice President, General  
14 Counsel and Secretary for Red Hat, Inc. Prior to joining  
15 Red Hat he practiced intellectual property at Moore and  
16 Van Allen. Mark also spent 20 years in corporate finance  
17 before entering the practice of law holding senior  
18 management positions with several Research Triangle-area  
19 companies. Mark.

20 MR. WEBBINK: I would probably be remiss if I  
21 didn't say I was probably bringing a little different  
22 perspective to the issue than some folks today given that  
23 our company is probably the leading open source software  
24 company in the country today. And part of what I'll talk  
25 about is the impact of intellectual property protection

1 on open source.

2 MS. DeSANTI: Thank you. Finally, at the end of  
3 the table we have Lew Gable. Lew is a partner in the New  
4 York office of Cowan, Liebowitz and Latman where he  
5 specializes in the preparation and prosecution of complex  
6 electronic and computer inventions before the PTO. His  
7 technical expertise includes Internet-related inventions  
8 and methods of doing business. Lew.

9 MR. GABLE: You've completely taken away my  
10 background.

11 MS. DeSANTI: Could you speak into the mike? I'm  
12 sorry you have to move it back and forth a little bit.

13 MR. GABLE: My practice, as the bio indicates, is  
14 the preparation and prosecution of patent applications.  
15 And I have worked with the patent office in filing  
16 applications for almost 40 years now.

17 And I have seen the evolution of the  
18 patentability of software and software-related products  
19 and now methods of doing business. And my perspective,  
20 whether it's for my clients or whether it's for the  
21 public interest, is really to ensure that patents are  
22 well searched and that the most pertinent prior art is  
23 found and that the patent office would issue patents  
24 whose validity there is a presumption, a strong  
25 presumption, of validity on those patents.

1 MS. DeSANTI: Thank you very much. All right.  
2 We'll begin with our presentations now. And the first  
3 presentation will be from Mark Webbink.

4 MR. WEBBINK: I have prepared some written remarks  
5 and I got those to Matthew I think late yesterday or  
6 early today depending on how late he was here last night.  
7 And I'd like not to spend a whole lot of time going into  
8 the things that I addressed in the written remarks other  
9 than to say that about six months ago I participated in a  
10 panel addressing a committee of the National Academy of  
11 Sciences on somewhat similar issues. They were  
12 principally focused on patent protection in the software  
13 industry.

14 And with some of the issues that I was raising  
15 the common response I kept getting was these are  
16 antitrust problems not patent problems. And I said,  
17 "Well, okay. Then I'll have to go find a proper venue to  
18 address them." Red Hat is an open source company. What  
19 does that mean? We work with, I think the polite term  
20 would be computer scientists or software developers -- we  
21 call them hackers -- all over the globe in developing  
22 open source software.

23 Our principal product is an operating system  
24 called Linux. Ours is the Red Hat version of Linux.  
25 There are other distributions all built on the same Linux

1 kernel.

2 While we hold copyrights on our software, which  
3 is sort of the old traditional way of protecting software  
4 other than trade secrets, we do not hold trade secrets in  
5 our software and in fact we make not only the binary code  
6 but also the source code available to customers of our  
7 software.

8 Until I arrived at Red Hat the company had a  
9 policy of not pursuing patent protection on software as  
10 being inconsistent with the open source philosophy.  
11 However, business realities have to take a role as well  
12 and one of those business realities is our competition.  
13 And one of our principal competitors, a rather large  
14 company from the Pacific Northwest, also holds probably  
15 more software patents than perhaps any other company  
16 other than perhaps IBM, and continues to gather a great  
17 deal of issued patents either to their control or control  
18 through licensing with other companies.

19 The people who work in the open source community  
20 tend to be very careful about what they develop in terms  
21 of avoiding software where there are known patents. But  
22 given the time frame of patent issuance the fact that  
23 under U.S. policy patents are not disclosed publicly at  
24 the time that they are filed and their development in the  
25 software industry, it may be years beyond the time that a

1 particular piece of technology has hit the marketplace  
2 before it is evident that it, in fact, it is covered by a  
3 form of patent protection.

4 We've got additional concerns around the fact  
5 that for years in the industry there was no patent  
6 protection for computer software or for that matter,  
7 business methods.

8 A tremendous body of prior art exists but not in  
9 a well established database like you have with the other  
10 arts to where professionals such as Lewis can go and  
11 manage a search that is going to ferret out pre-existing  
12 technology that may very well invalidate the patent.

13 You then put that process of issuing patents  
14 that, for arguments sake, I will say are perhaps less  
15 valid than what you might find in the other arts out in  
16 the marketplace, backed then by big money, and all of a  
17 sudden you have got a situation where the smaller  
18 entrants into the market, the new entrants into the  
19 market, are at a tremendous disadvantage in terms of  
20 being able to compete.

21 And one of the critical questions that I get on a  
22 repeated basis from companies that are looking at  
23 adopting open source software is where is my warranty  
24 against infringement?

25 Of course, I have now tongue-in-cheek started

1 pointing them to take a look at their own license to  
2 Microsoft Office and invite them to point out to me  
3 Microsoft's warranty for noninfringement in their license  
4 agreement which, if you haven't looked, you won't find.

5 But this is a big issue for them. And it's  
6 perceived to be a direct and imminent threat to the open  
7 source community and the adoption of open source  
8 software.

9 Now, people can look at open source and say,  
10 "Well, by its very nature is open source truly  
11 innovative? Isn't Linux, for example, nothing but  
12 another rehash of UNIX?" And there are a lot of  
13 different forms of innovation. Not all of them are  
14 technical.

15 Innovation can also come in the form of reducing  
16 the cost of a product and the manner in which it can be  
17 used. And what we found is that not only are we able to  
18 reduce costs to the consumer but in fact we have been  
19 able to produce a technically superior product, one that  
20 has performed extraordinarily well in benchmarks against  
21 the more established operating systems and have done so  
22 without the protection of issued patents. We have done  
23 it in a collaborative manner working with people both  
24 within our company and outside our company by sharing  
25 technology and making the technology freely available.

For The Record, Inc.  
Waldorf, Maryland  
(301)870-8025

1           And so I participate today as perhaps not a voice  
2           crying in the wilderness but one saying, let's not forget  
3           why our intellectual property laws were established in  
4           this country. They were established to protect the  
5           people and to protect society at large. Ideas such as  
6           fair use are quite critical to the general public in  
7           protecting the rights of the general public. And I would  
8           invite discussion with the rest of the panel to look at  
9           some of those issues.

10           MS. DeSANTI: Thank you, Mark. I have a number of  
11           questions I already feel like asking you but I'll hold  
12           off and we'll go to the next presentation -- Scott  
13           Sander.

14           MR. SANDER: Thank you. I said briefly in my  
15           opening comments that I was really here to talk to you a  
16           little bit my good friend and the inventor that we built  
17           our company up on his innovations.

18           But what I want to do is also give a quick bit of  
19           history, not just the history of Sightsound but also as  
20           you pointed out there are some issues right now about  
21           copyrights as well as patent rights and we're square in  
22           the middle of all of that because of the nature of our  
23           business in distributing movies and music.

24           I want to give you a little history and also  
25           bring you forward to the very acute situation that we

1 find ourselves in today with the movie studios and record  
2 labels. Let me start by giving you that background and  
3 say in the mid-1980s my friend, a young engineer named  
4 Arthur Hair, saw the future of movies and music. And  
5 Arthur invented a method and system for selling digital  
6 audio and video files over networks like the Internet.  
7 He was convinced back then that if the record labels and  
8 movie studios would embrace his invention that they would  
9 be spared a future of rampant piracy powered by computers  
10 connected to the Internet.

11 Arthur's father, an engineer from Pittsburgh, had  
12 patented a process for strengthening steel and he gave us  
13 a prophetic piece of advice. He said, get a patent to  
14 protect yourself so the big companies don't just steal  
15 your ideas.

16 We decided to start a company that would  
17 revolutionize the entertainment industry, which is no  
18 small feat for a couple of guys from Pittsburgh. And we  
19 were going to do it with a distribution method that was  
20 better, faster and cheaper than anything they had seen  
21 before.

22 In 1993, based upon Arthur's father's advice, we  
23 received our first patent. Now, up to today, let's bring  
24 ourselves back to the future, if you will. Last month  
25 James Rogan, Director of the U.S. PTO said, in these

For The Record, Inc.  
Waldorf, Maryland  
(301)870-8025

1       hearings, "Understanding the patent system begins with  
2       the recognition that patents are a form of property  
3       anticipated by the United States Constitution." Well, in  
4       our property, Art and I set about to build a company and  
5       change an industry. We were able to sell the world's  
6       first downloadable music in 1995 and the first feature  
7       film in 1999. And since then we have sold download  
8       movies into more than 70 countries worldwide.

9               Before the world went Napster crazy, Arthur and I  
10       presented the leaders of the media companies with our  
11       patent-protected method and system. We offered them an  
12       opportunity to sell their product, preempt piracy and  
13       make a new deal with the next generation of consumer.  
14       But they were frozen with fear and a commitment to cling  
15       to the control that they currently had.

16               We started to feel a little bit like Filo  
17       Farnsworth whose only reward for his invention of the  
18       television was personal satisfaction because in reality  
19       he lost an epic battle with the Radio Corporation of  
20       America and General Sarnoff. Sarnoff spent, as some of  
21       you know, many years and millions of dollars to work  
22       around Farnsworth's patents. Although Farnsworth will  
23       always be remembered as the man who invented television  
24       he himself knew only the struggle of lawsuits.

25               The story of David versus Goliath repeats itself

1 throughout history, but in our case it is more than just  
2 a mismatch in size. It's more than just one on one. We  
3 seek to change the business practices of an entire media  
4 oligopoly, an oligopoly which is currently under  
5 investigation, quite possibly engaged in a civil  
6 conspiracy to restrain trade, and like Sarnoff, certainly  
7 committed to delaying the future.

8 And that future, we believe, promises American  
9 consumers the benefits of its new and useful process for  
10 distributing entertainment. The future has to be based  
11 upon a mutual respect for property rights, our patent  
12 rights, their copyrights. And I'm here today to testify  
13 emphatically that our patent rights are the only thing  
14 that has the power to change the business practices of  
15 men like Rupert Murdoch, Sumner Redstone, Michael Eisner  
16 and the handful of companies that control the production  
17 and distribution of all of our recorded movies and music.

18 Like robber barons of an information age they  
19 seek to control all forms of distribution. Consider the  
20 following statement by Ted Turner of AOL Time Warner as  
21 told to New Yorker magazine in April 2001.

22 Ted said, "You need to control everything. You  
23 need to be like Rockefeller with Standard Oil. He had  
24 the oilfields, the filling stations, the pipelines, the  
25 trucks and everything to get the gas to the stations.

For The Record, Inc.  
Waldorf, Maryland  
(301)870-8025

1 And they broke him up as a monopoly.

2 You want to control everything. You want to have  
3 a hospital and a funeral home so when they die in the  
4 hospital you move them right over to the funeral home  
5 next door. When they're born you got them; when they're  
6 sick you got them; when they die you got them." He said  
7 "The game is over when they break you up, but in the  
8 meantime you play to win. And you know you've won when  
9 the government stops you."

10 Fortunately for us, another Ted, Teddy Roosevelt,  
11 once said the only way to meet a million dollar  
12 corporation is by invoking the protection of a hundred  
13 billion dollar government.

14 Arthur Hair sought that protection and we value  
15 it in our patent rights. The fact that these patents  
16 ultimately expire fills us with impatience and forces us  
17 to continue to innovate. And the ultimate beneficiary of  
18 our impatience and our innovation is the American  
19 consumer. Thank you.

20 MS. DeSANTI: Thank you. Next we're going to hear  
21 from Dan Burk.

22 MR. BURK: I've been fascinated to hear the  
23 testimony given thus far and look forward to engaging  
24 with members of the panel because both of the previous  
25 testimony has certainly resonated with me. But I thought

1 I would start my presentation by sharing with you some of  
2 the research that I mentioned in my introduction.

3 This is some research that's currently ongoing in  
4 conjunction with Professor Mark Lemley at the University  
5 of California at Berkeley who testified on the West Coast  
6 hearings a few weeks ago.

7 We have been specifically looking at the question  
8 as to whether patent law is technology specific. What do  
9 we mean by that? Well, we have in the United States a  
10 patent system which, for the most part, is directed to  
11 all kinds of technologies.

12 There are a few exceptions to that. There's  
13 Section 103 and elsewhere where Congress has specifically  
14 legislated rules with regard to a particular technology.  
15 But for the most part we have a patent system that covers  
16 software, biotechnology, mechanical devices, and all the  
17 other sorts of innovations that we talked about in these  
18 hearings.

19 And so that law has to be very flexible, has to  
20 be very adaptable, has to be designed to meet the needs  
21 of these different industries. But recently we have  
22 noticed a trend towards becoming technology specific in  
23 the patent law. And the best examples of this are in the  
24 area of software patents and also in the area of  
25 biotechnology patents which there was some testimony on

1 yesterday.

2 Now, what are we seeing specifically when we  
3 analyze the cases coming out of the United States Court  
4 of Appeals for the Federal Circuit which, as you know, is  
5 the court that Congress has vested with authority to deal  
6 with patent law.

7 We find in the area of software patents that  
8 we're focusing on here today that two very interesting  
9 things are beginning to happen. One of the purposes of  
10 the patent system that we haven't heard about so far  
11 today is to put information in the hands of the public  
12 not only to protect the property rights of the inventor  
13 and create that incentive for further innovation that we  
14 just heard about but also to disclose that invention so  
15 that when the patent expires everyone has that  
16 information to build upon.

17 And in the area of software patents we are  
18 finding, as we look at the cases that have been decided,  
19 that the Federal Circuit tells us that essentially there  
20 is no disclosure requirement for software.

21 In cases that have come before that court where  
22 there has been a question about disclosing code or even a  
23 flowchart or some other indications of how software  
24 works, the Federal Circuit tells us that's not necessary,  
25 that once you decide what you want to do, be it a

1 split-sheet or a compiler or some other type of software,  
2 that writing the code is mere clerical work. Anybody  
3 with average skill in the art can write that.

4 Now, I suspect that some of the folks who do  
5 programming, and some of them are here today, will tell  
6 you it's a little bit more difficult than that to  
7 actually write code that works. And we'll have a chance  
8 to talk about that, I hope, during the discussion period.

9 On the other side we don't give a patent to just  
10 anyone who has discovered something. We only want to  
11 give patents to significant technology advances so we  
12 have a requirement of obviousness. You can't get a  
13 patent if your invention would be obvious in light of the  
14 prior art.

15 And the Federal Circuit there has indicated that  
16 there is going to be a very high threshold with regard to  
17 obviousness, that most software patents for most software  
18 inventions they are going to consider to be obvious.

19 Now, that is connected to this idea of disclosure  
20 as I'll mention in a moment but they are simply the flip  
21 side of one another. If anybody as a matter of mere  
22 clerical work can do some programming, let you know what  
23 function you want to have happen, that also suggests that  
24 it should be very, very obvious how to do that and so it  
25 ought to be very difficult to get a patent on software.

1           Let me just mention in contrast to that -- we  
2 have already heard in these hearings about biotechnology  
3 yesterday but the situation has become exactly the  
4 opposite in biotechnology.

5           The Federal Circuit has told us that we have very  
6 stringent disclosure requirements in biotech. If you're  
7 going to try and patent a biotech molecule, you need to  
8 give us the sequence. Simply knowing how to get that  
9 sequence is not enough. But there's a very, very low  
10 obviousness threshold and essentially anybody who  
11 discovers a molecule is going to be able to get the  
12 patent on it.

13           Now, we suspect that as a matter of innovation  
14 policy this is exactly backwards, that if you look at the  
15 character of the two industries that we're studying,  
16 software where development is typically incremental has  
17 relatively short development times, relatively low cost  
18 development, compared to many other industries.

19           We suspect that we should actually have a more  
20 stringent disclosure requirement and a relatively low  
21 obviousness threshold which would lead to more and  
22 narrower software patents. I'll come back to that in a  
23 moment.

24           And in biotech by contrast, just to give you a  
25 sense of what another industry would look like, we have

1 long and very expensive development times that we should  
2 have less of a disclosure requirement, higher obviousness  
3 threshold, leading to fewer and broader biotechnology  
4 patents.

5 Now, some people cringe when we suggest that what  
6 may be needed in software is a different standard that  
7 would give you more and narrower patents because there  
8 are many complaints already that we have too many  
9 software patents. Let me note that we're talking here  
10 about valid software patents because we suspect that the  
11 majority of software patents that are issuing would be  
12 invalid under the standards that have been announced.

13 What are the causes for this? Well, I'll just  
14 suggest a couple that we found out. I have already  
15 mentioned the legal standard. We suspect that there  
16 should be some tinkering with the standard that's used to  
17 measure obviousness and measure disclosure in these  
18 industries.

19 More importantly, I think there's an  
20 informational problem that as courts are looking at these  
21 industries, we are typically looking at old technology,  
22 especially the biotech area but certainly the software  
23 area where things change very rapidly.

24 By the time a case gets up to the Federal Circuit  
25 we're looking at rather old technology and so they are

1 developing standards that might have applied 5, 10, 15 or  
2 even 20 years ago, but probably don't meet the needs of  
3 the industry today.

4 And so one of the problems here is working from  
5 facts that are no longer appropriate to what the industry  
6 needs. So with that I will close my presentation and  
7 look forward to engaging the other panelists in a  
8 discussion of the issues that they raised and the issues  
9 raised by this research. Thank you.

10 MS. DeSANTI: Thank you very much, Dan. We  
11 already have a lot out on the table to discuss and now  
12 we're going to get even more. Lew Gable.

13 MR. GABLE: Thank you. My comments this afternoon  
14 will reflect really my career in terms of preparing and  
15 prosecuting patent applications before the patent office.  
16 I can sympathize very greatly with Scott in his problem  
17 of enforcing his patent, even valid patents.

18 If you do not have a patent, you really have no  
19 protection and someone can come along and take and steal  
20 your idea and you have no recourse to that taking, that  
21 stealing of your intellectual property.

22 Most of my clients are small clients and they use  
23 their software patents in order to attract capital. And  
24 so it's not like perhaps a large company that has  
25 thousands of patents and the life of the large company

1 does not depend on one or two whether they are issued,  
2 whether they're valid or whether they can be enforced.  
3 But if you talk with most of my clients the first thing  
4 they are interested in is in terms of using their patents  
5 in order to get capital so that they can develop and  
6 market their invention. Literally, patents are the  
7 lifeline of this company that will keep it going until it  
8 can either make it or break it really in the marketplace.

9 One of the things I wanted to talk about, and  
10 most of my career has been in dealing with computer and  
11 now method of doing business patent, I wanted to go over  
12 some of the standards we have in terms of securing  
13 patents and to give you my feel on which are the most  
14 important which have been settled.

15 As you are aware there is at least two basic  
16 standards, Section 101 of the patent code, and this deals  
17 with what kind of inventions may be patentable. We have  
18 been operating now for 30 years with security protection  
19 for patents.

20 There has always been at least a basic question,  
21 can you patent software? Can you patent methods of doing  
22 business? And over this 30 or so years of time there has  
23 perhaps been 55 decisions of the Federal Circuit and the  
24 Court of Custom and Patent Appeals.

25 In addition, in I believe it was '96, the patent

1 office issued its software guidelines on how to prepare  
2 computer applications. And it's gone further. It has  
3 provided very definite and very meticulously detailed  
4 teachings of how to prepare claims that will pass 101  
5 muster.

6 And so we come down to the point now in 2002 and  
7 we have a very well-defined standard. It is the  
8 practical application standard. If your invention,  
9 whether it's a method of doing business or whether it's  
10 software, if it has a practical application in the  
11 technological arts, then it is patentable.

12 State Street said this; AT&T reinforced State  
13 Street. The Supreme Court has refused to hear these on  
14 cert. And so this aspect of the patent law and the way  
15 it looks at software is very well settled, at least in  
16 the patent office, at least in the Federal Circuit.

17 But there are other issues, the issues involved  
18 in Sections 102 and 103. And this is the area where we  
19 get into in terms of what it takes to be patentable.

20 How much do you have to be different from the  
21 prior art in order to be awarded a patent? And it's in  
22 this area that we seem to have more difficulty and, as  
23 other people have alluded to, the problem comes up when  
24 you don't find the most pertinent reference.

25 And the patent office has been justifiably

1 criticized for examining patents and issuing them without  
2 the best art, the best technology cited against them.

3 The down side of this, of course, is that if you  
4 miss the most pertinent references you have seriously  
5 undermined the presumption of validity of your patent.

6 How do you do this? Well, how do you find better  
7 prior art? It's tough. There are some built-in problems  
8 that you have. Probably the first is just the very  
9 nature of the technology we're looking at.

10 I can remember when patents were just starting  
11 out a long, long time ago, someone gave me the project of  
12 trying to determine whether a certain piece of technology  
13 was infringed or not. And what I got was a box of object  
14 code and someone said, "Tell me whether this infringes my  
15 patent." That's almost a no-brainer. I mean, there's no  
16 way you can do it.

17 I said, "Fine, would you like to spend maybe  
18 \$10,000- \$20,000 going through this object code and  
19 telling me what it does?" It's often very difficult to  
20 know what processes, what functions, are happening in a  
21 piece of software if you only have the source code and  
22 much worse if you just have the object code. It's a very  
23 difficult task and of course you can't use that as a  
24 prior reference in the patent office to reject certain  
25 patents because you don't know what really that software

1 is going to do.

2 The other problem we've had -- and we've had it  
3 in the '80s with software patents and we're having it now  
4 with method of doing business patents -- and that is we  
5 have had a rush of creativity and patenting. In the  
6 early '80s there were no patents on how to program your  
7 computers.

8 There was very little out there that could be  
9 used as prior art references so the patent office was put  
10 in the position -- "We have no references so we have to  
11 issue this."

12 It's similar now with methods of doing business.  
13 Methods of doing business, if you want to have a birth  
14 date for these kinds of patents you might take it as  
15 December '97. This was the first time that the patent  
16 office issued a set of classification, their word. I  
17 think there was a handful, maybe 800- 900 patents at that  
18 point that were issued. And that's when they started to  
19 classify it and put it into a particular class.

20 Well, since then, since '97 and you go from year  
21 to year to year, there has been a 40 percent increase in  
22 the number of patents that are issued. But unfortunately  
23 in terms of prior art, most of these are not of much  
24 value because it's now taking two to four years to  
25 successfully examine such patents in technology center

1 2100, which is the group of examiners that examines  
2 business method patents.

3 Right now in that center the pendency for an  
4 application has gone from two or two-and-a-half years to  
5 three years in order to get your first examination. So  
6 you might be looking at four to five years before you  
7 would actually get the patent issued. And when that  
8 happens and it's happened with methods of doing business  
9 type of technology, you have nothing to recheck them  
10 with.

11 The examiner is sitting there trying to find a  
12 reference. And there's no reference because everything  
13 is being held in secrecy. It's an application -- the  
14 technology is described in a lot of applications but the  
15 examiner cannot use them to recheck the new applications  
16 that are coming in. So you do have a problem.

17 But in part, some of these problems are  
18 self-correcting. In the '90s, after we have literally a  
19 decade of incredible amount of patent and creativity in  
20 terms of software, you could go in and you can find prior  
21 art without much more difficulty than you can in any  
22 other technology.

23 And we're also seeing now in methods of doing  
24 business, we're starting to see the first basic patents  
25 issue. And they, of course, being the basic patents, I'm

1       sure, will be good ammunition for patent examiners to  
2       apply against applications that are just now being filed.  
3       There's other things that are happening that can affect  
4       the problem of whether or not you have the best prior  
5       art. Almost a year ago now, the patent office has begun  
6       to publish not issued patents but pending applications  
7       even before they are allowed.

8                 In a single year, and I just checked this with  
9       Robert because I wasn't sure, but somewhere between  
10       50,000 and 55,000 published applications have now been  
11       published in the span of one year.

12                This is going to give a tremendous resource to  
13       the examiners and to the patent bar to know not only what  
14       inventions are patentable under 102 and 103, but also are  
15       there patents out there that are of potential  
16       infringement interest?

17                One of the big things of the lack of technology  
18       or lack of patents is that you're trying to advise a  
19       client who's coming in and saying, "Can I enter this  
20       field and are there third-party patents out there that I  
21       will infringe?" If these patents are sitting in the  
22       patent office there's no way you can legally look at  
23       them. There's no way to find out whether your client  
24       will be just walking into an infringement problem.

25                And the thing that often happens, and it's sort

1 of tragic for the individual small inventor. They put a  
2 lot of money and a lot of effort into this process and  
3 two or three years down the line, typically, in the  
4 course of the prosecution of their own patent they found  
5 out another patent has issued that covers their invention  
6 and they're barred from using it. Hopefully, the present  
7 publication of references will go a long way to do that.

8 The patent office is to be applauded in many ways  
9 for how they have handled a very difficult situation.  
10 The office is criticized for not finding references and  
11 certainly that has to improve, but certainly they have  
12 done a lot to solidify and explain what the definition of  
13 statutory subject matter is.

14 In terms of what the patent office is now doing  
15 with methods of doing business, they have taken special  
16 procedures with this kind of invention, particularly in  
17 technology center 2100. They're doing a number of  
18 things. One of the things they're doing is they're  
19 encouraging their examiners to use the Internet.

20 If you're going to examine an Internet patent,  
21 where the best source of information is on the Internet.  
22 And so you go; you search and find the Web sites and get  
23 a disclosure of what's happening.

24 The other thing that is happening is that once  
25 the application has been allowed, a senior examiner,

1 typically someone from quality review in the patent  
2 office, will come in and before that is actually issued,  
3 the notice is set, the experienced examiner will take a  
4 look at that and will give it his or her blessing. So  
5 you do get a second review of these applications before  
6 they come out.

7 The other thing that is being done is that they  
8 want to make sure that each application is thoroughly  
9 searched. And so the group directors of 2100 have set up  
10 a set of fields of search so that if you have a  
11 particular technology, you will have to search a  
12 particular set of subclasses, particular databases.

13 For example, how about if you're patenting a  
14 method of encryption of credit card data? There is a  
15 particular subclass and there's a related subclass that  
16 deal with that technology in Class 703. According to the  
17 instructions that are given to those examiners, they have  
18 to search all of those subclasses and they have to search  
19 through related databases of technology.

20 And this has helped to ensure that to the extent  
21 possible -- you can at least in a particular technology  
22 center -- you will have the increased shortness of the  
23 examination in the hope that you have really found all  
24 the most pertinent technology. But to the extent that  
25 the patent office has done that there's other things, I

1 think, the patent office can do.

2 And these may just be the pipe dream, but what I  
3 would like to see them do is to give the initial  
4 examination of each of these patent applications more  
5 time. I have been an examiner in the patent office and  
6 one of the things that you're really crunched with is the  
7 time in order to make the first examination.

8 In the first examination you have to read the  
9 application which may be 30 pages; it may be a hundred  
10 pages. You have to search the prior technology and you  
11 have to also write a report and the time you're typically  
12 given for something that may be not too complex, you  
13 might be given eight hours to do it. And that is tough  
14 to do. It is very difficult. So it would be good if  
15 they could give more time with the initial examination.

16 And the other suggestion -- these are not  
17 anything new with me but certainly I endorse them -- and  
18 that is to take steps to keep the experienced examiners.  
19 There is a very significantly high turnover in the  
20 examiners particularly, I understand, in the biotech area  
21 as well as the software, method of doing business area.  
22 So at least at one time in the last recent history, 50  
23 percent of the examiners that were in examining software  
24 had less than two or three years experience.

25 And if you're going to be able to examine well,

For The Record, Inc.  
Waldorf, Maryland  
(301)870-8025

1       you not only have to know the patent laws, you have to  
2       know the technology. So the worst thing that could  
3       happen for someone like myself is to get an examiner who  
4       has just been in the office for six months because they  
5       don't know the technology and the references they will  
6       typically cite to me are not typically pertinent.

7                But the one thing, and I was just talking with  
8       Robert, is that what this means is that you have to have  
9       more examiners. You have to increase the number of  
10      examiners and yet this is going to be very, very  
11      difficult under the present ways in which the patent  
12      office is funded and the way in monies are given to the  
13      patent office, and particularly in relationship to the  
14      fees that are been charged for examination.

15              It's not the picture I would want and I guess I'm  
16      very concerned about this and the resulting inability  
17      really to do the examination that is required and to  
18      really find the most pertinent references. Thank you.

19              MS. DeSANTI: Thank you very much. Our final  
20      speaker before the break will be Ed Black. Ed?

21              MR. BLACK: Thank you. It's a pleasure to be here  
22      and I want to again congratulate the Commission and DOJ  
23      for bringing attention to what is a very important part  
24      of our economy and legal structure that needs, I think, a  
25      great deal of attention. As I said earlier CCIA has a

1 long history both in antitrust and intellectual property  
2 activity. We have been strong supporters of intellectual  
3 property over the years, and with software piracy, but we  
4 have also been very concerned that the scope of such  
5 things such as copyright protection -- I'll speak a  
6 little more broadly than just patents, but IP in general  
7 because they're tremendously intertwined in the software-  
8 Internet world that the scope of protection is not being  
9 properly extended so as to unreasonably impede the  
10 development of innovative hardware and software products  
11 that interoperate with other products in the marketplace.

12 We have our core goal to be vigilant in the  
13 efforts to maintain the openness of the Internet and the  
14 smooth operation of modern telecommunications networks.  
15 As a leading industry advocate for the application of  
16 legal standards that will effectuate the constitutional  
17 mandate to ensure authors "the right to their original  
18 expression" while encouraging competitors to build freely  
19 upon the ideas and information conveyed by a copyrighted  
20 work, a strong yet balanced system, we're convinced,  
21 works best for all. At the outset, it's important to  
22 emphasize that our antitrust laws are in no way  
23 subordinate to intellectual property laws.

24 This point was made very clearly recently when in  
25 June the U.S. Court of Appeals for the District of

For The Record, Inc.  
Waldorf, Maryland  
(301)870-8025

1 Columbia delivered an *en banc* decision unanimously in the  
2 U.S. v. Microsoft case and it responded in that case to  
3 Microsoft's claim that their intellectual property rights  
4 excuse conduct that would otherwise violate antitrust  
5 laws.

6 "Microsoft's primary copyright argument borders  
7 on the frivolous. The company claims an absolute and  
8 unfettered right to use its intellectual property as it  
9 wishes. If the intellectual property rights have been  
10 lawfully acquired," it says, "then their subsequent  
11 exercise cannot give rise to antitrust liability."

12 The court continues, "That is no more correct  
13 than the proposition that the use of one's personal  
14 property such as a baseball bat cannot give rise to tort  
15 liability." The court wound up concluding that  
16 intellectual property rights do not confer a privilege to  
17 violate antitrust laws.

18 I would suggest this unanimous *en banc* decision  
19 should be in the forefront of all of our consideration on  
20 development issues in this area as well as focus here on  
21 copyright. It generally does use the language of  
22 intellectual property in the broadest sense.

23 It's that wise jurisprudence that we think should  
24 guide us and that, while intellectual property rights are  
25 absolutely essential to encourage innovation and

1           creativity, strong safeguards are also necessary to  
2           prevent the abuse of those rights.

3                     I'd like to briefly discuss a few points related  
4           to one particular area, business method patents, which  
5           have obviously been mentioned.

6                     There's little debate that the mechanical process  
7           in the offline world can be patented. However, in recent  
8           years some patent applications have claimed patent rights  
9           for taking a commercial process or business method that  
10          has existed in the brick and mortar world and promulgated  
11          it online. We believe that these kinds of patent claims  
12          do not serve the purpose of the patents laws.

13                    Some examples include Amazon's one-click purchase  
14          patent, reverse auctions on the Internet and British  
15          Telecom's hyperlinking patent. The experience with these  
16          and other patents is illustrative of how the liberal  
17          issuance of business method patents can create perverse  
18          results.

19                    PTO is clearly overburdened by the huge number of  
20          patent applications and has lacked adequate resources and  
21          we've had a good description of many of the problems that  
22          exist to conduct a kind of thorough prior art review for  
23          each application.

24                    But unfortunately, the results therefore have  
25          been predictable. In order to remedy the situation,

For The Record, Inc.  
Waldorf, Maryland  
(301)870-8025

1 Congress and the PTO needs to institute some basic  
2 changes in procedures, as well as the resources necessary  
3 to provide more meaningful opportunity for the affected  
4 business community to challenge the validity of a  
5 business method patent claim. We obviously have more  
6 details in our written submission which lay out some of  
7 this much further.

8 I think it's also hard to talk about software and  
9 the Internet without talking about the international  
10 Treaty and the DMCA law which has been implemented in  
11 connection with that. And you have Section 201 at the  
12 DMCA.

13 The anti-circumvention provisions of the DMCA we  
14 are concerned and at the time of passage indicated that  
15 we thought there were some fundamental flaws in that  
16 construction.

17 Legitimate efforts to deliver new and innovative  
18 products in the market and to consumers have been  
19 thwarted or have been challenged as violations of the law  
20 as amended by DMCA.

21 We recently have observed the rise of litigation  
22 involving reverse engineering of the encryption  
23 protecting digital versatile disks. This litigation  
24 exemplifies the undue narrowness of the DMCA reverse  
25 engineering process. We support very strongly a

For The Record, Inc.  
Waldorf, Maryland  
(301)870-8025

1 broadening of reverse engineering exception to facilitate  
2 interoperability of any storage format with any operating  
3 system or software platform.

4 The other thing I think when we talk about the  
5 Internet and software is what it does in the world of  
6 information and data flow. And we have seen the issue of  
7 database protection has arisen.

8 And for several years Congress has wisely  
9 declined to enact legislation to protect owners of  
10 established databases from competition. Claiming to be  
11 victims of database privacy or free-riding, large  
12 publishing houses, largely foreign, and others now  
13 advocate passage of legislation to provide novel legal  
14 protection to databases.

15 Most others in the high technology, science and  
16 academic community believe an entirely new regime of  
17 intellectual property law is unnecessary, unwise and  
18 could have serious negative results on the impact and  
19 flow of important information on the Internet and in an  
20 open society.

21 We believe a mere compilation of facts already in  
22 the public domain in whatever form does not meet the  
23 constitutional standard for intellectual property  
24 protection unless there is a regional selection  
25 coordination or arrangement in the compilation as

1 indicated in the Feist decision.

2 Both this Commission and DOJ has wisely voiced  
3 objections to the Coble Bill in the House citing serious  
4 Constitutional reservations and concerns about the effect  
5 of this legislation. And we urge you to continue to do  
6 so when asked or not.

7 One final issue. We believe that competition  
8 issues are very important, as I said, in the development  
9 of products for consumer and enterprise software markets.  
10 Given the dominant position that Microsoft holds in these  
11 markets, it's important to look at the way in which they  
12 have attempted to utilize the Copyright Act as a  
13 strategic tool to achieve anticompetitive objectives.  
14 Restrictive licenses required of computer manufacturers  
15 and zealous protection concealment of interface  
16 specifications are among the primary tools Microsoft has  
17 used to protect and extend its monopoly position and  
18 thwart effective competition in related markets.

19 As a leading supporter of the Justice  
20 Department's case against Microsoft, we have recognized  
21 that antitrust enforcement alone is not sufficient to  
22 restrain an aggressive monopolist. The protection of  
23 vital user rights under the Copyright Act is also  
24 essential for the preservation of competition and  
25 innovation in the computer and software industries.

For The Record, Inc.  
Waldorf, Maryland  
(301)870-8025

1           We felt it was necessary to mention Microsoft  
2 because they are the 800-pound gorilla in this world and  
3 it would be impossible to have discussion of the  
4 intersection of intellectual property and competition  
5 policy in the high technology sector without doing so.

6           The resolution of this antitrust case and the  
7 intellectual property and other remedies that are likely  
8 to be imposed upon Microsoft will be a primary  
9 determinant of the future of the competitive environment  
10 of our industry.

11           In conclusion, I said that this broad area that  
12 you are holding these hearings on is an area that is very  
13 ripe for debate. We're pleased to be part of it. We  
14 recommend that the Commission take a leading role in  
15 making sure that our intellectual property laws and  
16 competition laws achieve the necessary balance.

17           The courts on a whole, we think, have been doing  
18 a good job in trying to preserve the fundamental balance  
19 between protection and competition.

20           However, I think that, frankly, the other two  
21 branches of government have not. During the '90s some  
22 dominant companies persuaded Congress and the Executive  
23 Branch that stronger intellectual property laws meant  
24 more jobs and exports without consideration of the  
25 benefits of a balanced system.

For The Record, Inc.  
Waldorf, Maryland  
(301)870-8025

1           The relevant House committee and the PTO within  
2 the Commerce Department have, I think, been overly  
3 influenced and persuaded by these arguments.  
4 Accordingly, intellectual property legislation over the  
5 past decade has steadily ratcheted up the level of  
6 protection with less concern for public domain, fair use  
7 and overall balance.

8           Where can we find the countervailing forces to  
9 the politically influential content industries and other  
10 dominant players? The courts can only do so much. They  
11 cannot create the exceptions and limitations Congress has  
12 explicitly rejected.

13           It would be unrealistic to expect the PTO to  
14 advocate strongly against the expansion of its  
15 jurisdiction and against the interests of its customers  
16 that fund its operations.

17           I would submit, however, to the Commission that  
18 it and the Department of Justice are logical  
19 countervailing forces to the strong dominant industries  
20 in this area. Their role is to protect -- your role is  
21 to protect the public against monopoly power and various  
22 corporate interests that seek to expand their  
23 intellectual property monopolies through legislation.

24           I would urge both institutions to please increase  
25 your capability in the intellectual property area and

For The Record, Inc.  
Waldorf, Maryland  
(301)870-8025

1 your commitment to strong competition and to participate  
2 vigorously in interagency and inter-branch process on  
3 behalf of competition rather than deferring to agencies  
4 which may have substantial technical expertise, such as  
5 PTO, but lack the ability to put in perspective all of  
6 the relevant factors and maintain the proper balance.  
7 Thank you very much.

8 MS. DeSANTI: Thank you, Ed. All right. I think  
9 we're just going to take a ten-minute break to digest  
10 everything that we have heard and then we'll come back  
11 for an hour of discussion. So let's return at quarter of  
12 3:00 please.

13 **(Whereupon, a short recess was**  
14 **taken.)**

15 MS. DeSANTI: I wanted to begin, Dan, by asking  
16 you a few questions about your presentation, and also you  
17 mentioned that you had some questions on your mind. So I  
18 want to let you follow up with those. But one question  
19 that occurred to me is -- well, there are two questions.  
20 One is was your research indicating that, in fact, in  
21 particular cases the way the Federal Circuit has applied  
22 the law which on the surface, at least as it is  
23 articulated, appears to have a one-size fits all standard  
24 that, in fact, in particular cases it was articulated --  
25 it was applied differently or that the articulations were

1 different? That's one question.

2 And the second question is why would you ever  
3 want to talk about lowering the standard for disclosure?  
4 We have heard a lot from people through all of the  
5 sessions so far that the fundamental pact involves a  
6 period of property exclusivity in return for a disclosure  
7 that is in the public interest to foster innovation. So  
8 those are two questions to start with.

9 MR. BURK: Sure. The analysis that we have  
10 been doing, in particular these two sets of cases,  
11 Federal Circuit cases dealing with software patents and  
12 the Federal Circuit cases dealing with biotechnology, as  
13 you say indicates that in the abstract we have a one size  
14 fits all system. We say, well, we have these legal  
15 standards. We apply them to everybody. We apply them to  
16 semiconductors. We apply them to biotech. We apply them  
17 to software.

18 But the standard deals with something called the  
19 person having ordinary skill in the art. That's the  
20 legal standard that tries to match the characteristics of  
21 the industry and their needs to the patent law. So we  
22 try and evaluate patentability as compared to what's  
23 already known in a particular industry.

24 Now, that should be more flexible -- enough in  
25 the law when we look at software to say, "Well, we think

1       that the person of ordinary skill in the art in regard to  
2       software knows a certain amount and that will determine  
3       patentability, but the level in biotechnology might be  
4       different." For example, the Federal Circuit has told us  
5       that a person of ordinary skill in biotechnology is at  
6       the Ph.D. level.

7                 That is not necessarily the case in software. It  
8       might be the teenage hacker in the garage might be the  
9       person with ordinary skill in the art in software. So we  
10      try to adapt it to the different industries and as we do  
11      that we're discovering that we are essentially evolving  
12      sort of subregimes of patentability so that the Federal  
13      Circuit has articulated a very, very distinct and unusual  
14      standard for biotechnology that says you must disclose a  
15      DNA sequence to us in order to get a patent, but once you  
16      do you are essentially assured of a patent, whereas in  
17      software they say, "Oh, well, just tell us what you want  
18      it to do."

19                 And we figure that the person of ordinary skill  
20      in the art in software, once you tell what you want to  
21      have happen, they can always write the code. Writing the  
22      code is no big deal. Now, in reality we suspect writing  
23      code is a big deal -- getting the bugs out, getting it  
24      developed and actually getting it to function.

25                 So again, the articulation has been one size fits

1 all, but the outcome is that we have very, very different  
2 standards for different industries.

3 And going to your second question, why would you  
4 want to lower the requirement for disclosure? Remember  
5 that one of the hurdles you have to get over to get a  
6 patent is you have got to disclose something to us.  
7 That's the pact that you talked about.

8 In the area of software there is essentially no  
9 hurdle at all. Tell us that it's a compiler; tell us  
10 that it's a spreadsheet. We'll assume that you can write  
11 the code. You don't need to tell us what the code is.  
12 You don't need to give us a flowchart, don't need to give  
13 us any indication of how you do it, just tell us its  
14 function.

15 In biotech though, as I said, this standard is  
16 very, very stringent. You must have actually found the  
17 sequence even if one of ordinary skill would know how to  
18 find the sequence. And so that creates quite a barrier  
19 to the biotech patent application -- I have already done  
20 the work but to have the sequence in hand before I'm  
21 entitled to a patent.

22 And it may be that a lesser standard would be  
23 appropriate because part of what we're trying to do as we  
24 heard from some of our first panelists is use this patent  
25 to get venture capital, use this patent to get the money

1 to develop something.

2 And so maybe if I know how to get the sequence,  
3 even if I don't have the sequence in hand yet, it may be  
4 appropriate to give that person a patent so that they can  
5 attract the venture capital to innovate, to actually  
6 develop that and turn it into a marketable product.

7 You asked about some of the questions I had. One  
8 of the things that came up several times with the other  
9 panelists comments that I found fascinating and really  
10 resonated with is the intersection that looked at the  
11 measure between copyright of the content industries and  
12 patenting of the software or Internet innovations.

13 And one of the issues that has been on my mind is  
14 the question that Mark Webbink had mentioned and Ed  
15 mentioned with regard to fair use. Of course, in the  
16 software copyright context, fair use has been critical to  
17 competition because the courts have told us that reverse  
18 engineering someone's software is a form of fair use.

19 And so fair use essentially gives you the ability  
20 to look at somebody else's code, look at somebody else's  
21 software and create an interoperable or competing  
22 product. Patent law, as we know, doesn't have a fair use  
23 doctrine. So as we're starting to patent these things it  
24 seems to me that we may be inhibiting innovation,  
25 inhibiting competition, because I can't reverse engineer

1 someone's product, can't do what I can do in the  
2 copyright area with patent.

3 I wonder if the other panelists are seeing this  
4 -- that because there's no fair use in patent law, it's  
5 harder to create interoperability, harder to create  
6 competing products?

7 MS. DeSANTI: Let me add just one additional part  
8 to that question which is a question of when do you  
9 choose copyright versus patent protection? When does it  
10 make sense to choose copyright protection for software?  
11 When does it make sense from a business perspective to  
12 choose patent for software? Lew?

13 MR. GABLE: A lot of it depends on what's  
14 commercially at risk. A patent in the software area may  
15 cost you \$30,000- \$40,000 to file and prosecute.

16 MS. DeSANTI: Could you pull the microphone a  
17 little closer? Thank you.

18 MR. GABLE: It will cost you \$30,000 or \$40,000 to  
19 prepare and file and prosecute a run of the mill, 15-page  
20 patent application protecting a particular application  
21 program. In order to do that you have to justify that  
22 expense.

23 And at that point if you do have that need to  
24 protect that technology because the market is going to be  
25 sufficient to support that kind of cost, then you

1 probably want the added advantage of the patent.

2 The patent uniquely has the advantage to protect  
3 a process. And you take a look at most of your software  
4 patents. You take most of your method of doing business  
5 patents and they boil down to a simple flow diagram.

6 Everything that goes into a claim can almost be  
7 correlated back to a simple flow chart, so you can get  
8 protection at a fairly high level. And, of course,  
9 that's our goal, to get as much as we can. And, of  
10 course, what limits us is the prior art. And that's why  
11 it's so important to know what's the prior art so you can  
12 calculate how far you should go with the scope of your  
13 claims.

14 MR. BURK: Surely Ed has something to say about  
15 interoperability.

16 MR. BLACK: Well, I guess I was most intrigued by  
17 the question because you felt the need, Susan, to qualify  
18 it and say business reasons because the truth is that's  
19 what is governing here and that's what's wrong. It's not  
20 innovation enhancement rationale.

21 It really is covering yourself and liability and  
22 protecting and making sure you've got instead of somebody  
23 else. And somehow we have intellectual property  
24 interlocking regimes where the goal is really how to game  
25 the system.

1           And I'm afraid that just in too many different  
2 places it has lost its fundamental engine, which is it's  
3 supposed to be the dynamo and the legal structure that  
4 really promotes innovation.

5           And I'm just increasingly seeing that that's not  
6 its core function, that the core function is business  
7 strategy, gaming, squeezing players out, preventing  
8 people from wanting to take risks -- some of which are  
9 not relevant to innovation. Some are absolutely contrary  
10 and counterproductive.

11           I can say positive things too -- I guess I'm  
12 overemphasizing the negatives here, but they do seem to  
13 stand out. And I think it's worth pointing out that I  
14 haven't researched the year so I could be off, but  
15 somewhere in the early '90s was the point at which  
16 software patents really exploded.

17           And until then, I think the number I remember is  
18 seven or something existed. And most of the tremendous  
19 dynamic growth in the computer software industry occurred  
20 before then. So you had vigorous dynamic vital growth,  
21 exchange of information, rapid innovation without needing  
22 any innovation boost from the patent system for software.  
23 So now we've got it.

24           And everybody's got thousands of patents that are  
25 all over the place but it's really hard if you look at

1 that history to conclude that patenting of software is a  
2 really valuable catalytic plus for innovation.

3 MS. DeSANTI: Let me just stipulate to clarify on  
4 the record that when I say for business reasons, I assume  
5 that innovating is a business reason. Scott?

6 MR. SANDER: Yeah. I wanted to say something that  
7 Ed might be a little surprised at, but certainly will be  
8 interested to hear, and that is that I didn't actually,  
9 at first, respond to that question because it seemed to  
10 be a question about patenting software or copyrighting  
11 software.

12 And we have patents that have both method and  
13 systems claims. We build a system to distribute the  
14 movies and music of digital audio and video  
15 electronically. We have patent protected many things  
16 that we have done around there, but I'm not qualified to  
17 answer the question because we, specifically, as a  
18 business strategy since Day One never make software  
19 because we live in America and patented or copyrighted it  
20 doesn't really matter. There, that's my gift to you  
21 today, Ed, because there is a reality called Microsoft  
22 that puts us in a very different situation as a small  
23 company trying to build a business.

24 So we only leverage the software that Microsoft  
25 creates and then patent protect the method and system so

1 that we don't get Microsofted on our core business. So  
2 that's a concession that we do neither because we just  
3 bail before we even start because we don't do software.  
4 And that's probably another area on the other side of  
5 town.

6 MS. DeSANTI: Yes, exactly. And we're not  
7 covering those issues today.

8 MR. BURK: Those are both very interesting  
9 comments to me because I'm reminded of a story about a  
10 close friend of mine who was a property attorney who  
11 moved from a law firm to an in-house position with a new  
12 Internet startup.

13 And his first day there he went down to see what  
14 they were developing, what the engineers had come up  
15 with. They showed him their latest product and being, of  
16 course, an intellectual property attorney like Lew or  
17 myself, said, "Gee, I wonder if we can patent that?" And  
18 so they thought about it and they said, "No, it was too  
19 obvious." They wouldn't be able to patent it.

20 And he said, "Well, maybe we can protect with  
21 copyright." And they thought about that, the engineers,  
22 and they decided no, copyright wasn't really very good  
23 protection for that. And my friend said, "Well, what are  
24 we going to do? We're going to lose the company." And  
25 the engineers looked at him like he was insane. And they

1       said, "We're going to sell this for six months until our  
2 competitors copy it and then we'll move on and sell  
3 something else."

4               And that's what we do in this industry, which  
5 tends to anecdotally support Ed's view that maybe when  
6 you have a very, very short development time and very,  
7 very short life for some of these products, some  
8 intellectual property protections, as they now exist,  
9 just are not terribly helpful in your business plan.

10              MS. DeSANTI: Mark, I have to ask you this  
11 question. You mentioned that you do have copyrights and  
12 I'm wondering as a corollary whether you can help us  
13 understand if making money from protecting intellectual  
14 property rights is not your business revenue model, what  
15 is?

16              MR. WEBBINK: Well, maybe addressing that issue  
17 first would be helpful. While we derive some income in  
18 our company from the distribution of open source software  
19 most of that income centers around, in terms of if you  
20 think of a traditional boxed product, the fact that we  
21 are delivering convenience at that point because the same  
22 product that is in that box is freely downloadable from  
23 our website. But if you are not on a T1 line, if you're  
24 trying to download Red Hat Linux software with a 28K home  
25 modem, if you don't have about six days of free telephone

1 time it might take you a while to do that.

2 And so it's there as a retail product to help  
3 consumers be able to get it on a CD, get some technical  
4 support, get some credit manuals, that sort of thing.  
5 And the software itself is still fundamentally free.

6 So where do we derive the rest of our income? We  
7 derive it from a variety of things. One, we have a very  
8 robust training and education program around Linux and  
9 other software related to open source software including  
10 training on C++ and things like that which provides a  
11 good deal of income for us.

12 We do derive some income from just pure technical  
13 support, the kind of, "I need help. I'm trying to get  
14 this software installed. I've looked at UNIX my whole  
15 life and can you help me walk through this?" developer  
16 support which is becoming an increasingly important thing  
17 for us. I'll come back to that in just a second.  
18 Engineering services, much of that's been focused on  
19 embedded systems, but it's also been support of other  
20 software vendors who are interested in porting their  
21 products to run on Linux and need interfaces developed so  
22 that the applications will run.

23 A growing portion of our business is in just pure  
24 IT type consulting. Related to Linux again, you've got  
25 large users that are looking to convert their operating

1 system and they don't have the internal resources to make  
2 this migration. They need help. They need a migration  
3 path defined for them. They need assistance in making  
4 the migration. They may need some high-level software  
5 that they use from other vendors ported in advance and so  
6 we have consulting services built around that.

7 And so the vast majority of our income is derived  
8 from services and almost nothing from what you would  
9 traditionally think of as the sale of software. Going  
10 back then to understanding where we are in our industry  
11 and in areas of where we do compete and compete  
12 effectively in areas where we have, for very rational  
13 reasons, not competed against the company that has a 94  
14 or 96 percent market share.

15 Where we have competed effectively is in the  
16 server market, both in web servers and enterprise  
17 servers. And there, the biggest gap we had to overcome  
18 was not within the web server market but within the  
19 enterprise -- large industry looking to adopt an  
20 alternative operating system.

21 And there they needed, again, assistance in  
22 convincing major ISVs, and those would include companies  
23 like Oracle, IBM itself with its DB2, Lotus Notes and  
24 products like that, Veritas. These are companies that  
25 are providing software that is critical to large industry

1 and that software didn't run on Linux.

2 And so we had to bridge that chasm. We had to  
3 get from the early adopters to a point where those ISVs  
4 now saw that that's where the market was going and  
5 started moving and wanting us to help carry them into  
6 that marketplace. And that's where we have gotten to.

7 So some would say that, in fact, this is before  
8 I joined the company I read the comment somewhere, Red  
9 Hat was a successful IPO in search of a business plan.  
10 And I would say that to some extent that might have been  
11 true three years ago. But the company has very much  
12 focused itself now.

13 We are in a business where we don't have the  
14 ability to look and say, "Well, what did somebody else in  
15 this industry do because there has not been an open  
16 source company that's been built on open source  
17 technology before." So we have had to take a few steps  
18 forward and even once in a while take a step back and  
19 say, "Okay, this is an area where it's working and this  
20 is an area where it's not working." Where we found that  
21 it does work though is built on a subscription model that  
22 is fundamentally built around service and customer  
23 convenience at very different levels. At the retail  
24 level customer convenience was built on simply delivering  
25 a CD rom. At the enterprise level customer convenience

1 is built around a system that we called Red Hat Network  
2 which allows system updates and management to take place  
3 at a very high level.

4 We touched earlier on the fact that there are  
5 multiple regimes here that touch on software and this is  
6 something that I don't think the average person  
7 recognizes, that software is touched by virtually every  
8 form of intellectual property regime, be it patent, be it  
9 copyright, trademark, which is critically important to my  
10 business, and also trade secret. They have all touched  
11 on it at one point or another.

12 It's now at a point and I think in some respects  
13 while maybe not totally unique, it is probably more  
14 unique in that regard than other areas of intellectual  
15 property. It's not something you see to the same degree  
16 in chemical or mechanical items.

17 And it's that overlay to where you've got fair  
18 use under copyright, but proprietary companies saying,  
19 "But you can't reverse engineer my product." And their  
20 product now contains patents that they're supposed to  
21 have offered disclosures on, but you look at what's  
22 available in terms of a disclosure and all you can look  
23 at are claims that are extraordinarily broad.

24 And I recently got a very typical letter in the  
25 patent industry from a law firm representing a company

For The Record, Inc.  
Waldorf, Maryland  
(301)870-8025

1 that holds some patents inviting us to consider taking a  
2 license in their patents because they've got this broad  
3 range of technology covered by their patents that they  
4 have acquired.

5 And I take those and I send them out to our  
6 software engineers and in a matter of about 24 hours they  
7 have cited prior art to every one of these. And this  
8 isn't something that should have been hard to find. It's  
9 just this type of technology was well known several years  
10 before these applications were ever filed. And yet the  
11 patents have now been issued.

12 Now, this being the typical run of the mill sort  
13 of situation I'm probably going to tell these folks what  
14 they can probably do with their patents, that we are not  
15 likely to take a license. But you take those same  
16 patents now and put them in the hands of a very large  
17 corporation that's got \$40 some billion in cash in the  
18 bank and you've got a very different situation.

19 How do I fight that situation? I can't simply  
20 ignore that and I'm not on a level playing field anymore.  
21 And that's part of where our concern is with this  
22 process. Red Hat is not opposed to intellectual property  
23 protection. We are not opposed fundamentally to patents  
24 and patenting things, but as a casual discussion was  
25 going on during a recess, it's largely about balance.

For The Record, Inc.  
Waldorf, Maryland  
(301)870-8025

1       Where do you strike the balance between what is, for lack  
2       of a better term, true innovation, something that is  
3       adding value, and something that is simply trying to  
4       carve off a block a world and starts off with its first  
5       claim is, "We claim all things existing within the solar  
6       system operating around -- consisting of nine to ten  
7       planets," and that's the first claim. And you go, geez,  
8       I think somebody came up with that idea first.

9               Those are the sorts of things that we feel like  
10       the system has gotten out of kilter in, where the area of  
11       business methods, software patents is different from  
12       other areas.

13              MS. DeSANTI: Well, let me follow up and ask  
14       others, and Dan, you may have information on this, are  
15       you seeing in the cases that you have looked at really  
16       broad claims and to what extent do people around the  
17       table feel that there is a problem with the quality of  
18       software patents being issued? I know, Lew, you  
19       mentioned a number of initiatives that the PTO has taken  
20       to try to deal with this issue but maybe you can have  
21       some reflections as well on where they are in those  
22       steps.

23              MR. GABLE: There's a couple of thoughts. It is  
24       very difficult when I hear something, especially in the  
25       newspaper, that will say a patent covers this huge scope

1 of technology. And you know as a patent attorney that if  
2 you get into the very precise and rigorous infringement  
3 determination, that the scope of that claim will turn out  
4 to probably be something much narrower, and I think one  
5 of the great examples of this is the Amazon.com patent.

6 I have not looked at it in great depth, but I  
7 know enough that the people who did look at the  
8 references and after a number of days of making a  
9 determination came up with the idea that this was not  
10 clearly obvious over the prior art.

11 There's a question here. The District Court  
12 looked at the references, looked at the scope, and said,  
13 "I think this is valid." It's apparent from the dicta in  
14 the Federal Circuit decision, which reversed the  
15 preliminary injunction, that they were not quite so  
16 sanguine about the patentability of this. This is close.

17 And I think most people would paint this,  
18 especially in the newspaper, as here you have this way  
19 overbroad patent. If it was very, very overbroad one  
20 thing that would happen in the patent office, the patent  
21 office would start a reexamination process of this on its  
22 own initiative.

23 But I'm fairly certain that the people in the  
24 patent office gave the second look at this, and they came  
25 up with the conclusion on the second time around, this

1 was in private, that these claims were nonobvious when  
2 they gave this the second look. And so no reexamination  
3 process of the Amazon.com patent ever happened. But you  
4 see how the Commissioner of patent or the Director, now,  
5 of patents works that if there is a patent that is  
6 getting severe press, and of course Amazon.com patent,  
7 the patent office will consider whether it should on its  
8 own initiative or not take a second look at it. And they  
9 do.

10 In a number of situations, they do just without  
11 outside party involvement at all, they will take a second  
12 look. And in some cases they have significantly narrowed  
13 the scope of patents that were issued.

14 MR. BURK: I think two or three thoughts on that.  
15 The first is the one that's inherent in Mark's comments,  
16 which is that the problem is not a patent with overbroad  
17 claims or a few patents, but sort of a death by a  
18 thousand cuts, that there are many, many of these  
19 patents, that it's very difficult to determine which of  
20 them are valid or not.

21 Looking at what the Federal Circuit says about  
22 the standard, first of all, makes it difficult to  
23 determine whether it's invalid because, as Mark  
24 indicated, there's rarely disclosure on most of these.  
25 So they're claiming a lot with minimal disclosure for you

1 to evaluate on and the Federal Circuit tells us that the  
2 obviousness threshold is going to be very high.

3 So we would guess that many of these are going  
4 eventually be found to be obvious, at least. But that is  
5 several years and many thousands of billable hours down  
6 the road before you get that determination. And so it's  
7 the fear factor when you get this kind of delay the  
8 market is talking about.

9 I think the second point to make in conjunction  
10 with that is to ask ourselves what we think patents are  
11 doing, because one of the assumptions that we typically  
12 make and that we have been making in our discussions so  
13 far is that patents exist to be licensed to provide an  
14 incentive or payback on investment.

15 When you do R&D, you then have a piece of  
16 intellectual property that you can license and collect  
17 royalties on or sometimes infringement damages on.

18 But we note the vast majority of patents are  
19 never litigated, never licensed, in more than 90 percent  
20 of patents. Well, what are they doing out there? Why  
21 are people spending money to get these things? We've  
22 heard some of the things that they're used for, right?

23 They might be used to attract venture capital and  
24 never licensed and never litigated. They might be used  
25 in a situation where I'm simply being defensive. Mark

1 talked about that a little bit. I'm afraid of my  
2 competitor who has big portfolio patents. One way to  
3 protect myself is to develop big portfolio patents  
4 myself, in case they ever decide to sue me, that I have  
5 something to countersue with.

6 They might be used as negotiation chips in  
7 various kinds of joint ventures. They might say, "Well,  
8 you're bringing something to the table. I can bring this  
9 portfolio of patents to the table."

10 So there are a lot of sort of nontraditional or  
11 nonexpected uses of patents. And the question then  
12 becomes how much examination, how valid do we want them  
13 to be to be used for all kinds of purposes? Clearly, if  
14 they're going to be used to ask you to license or ask you  
15 not to develop a certain technology without paying a  
16 royalty, we would want that to be very stringent and be  
17 real sure that that's a good patent.

18 If they were being used to attract venture  
19 capital or signal something about your business plan, it  
20 may be less important, but to make sure that they're  
21 really on solid legal footing. If they're being used as  
22 sort of negotiation chips or for defensive posture, it  
23 may be even less important.

24 So they're being used for different reasons than  
25 maybe we had originally anticipated. And it's not clear

1           how much effort we need to put into those different types  
2           of uses for them.

3                       MR. SANDER: I had a comment about the observation  
4           that when these things that are actually quite complex  
5           end up in the media and it's a very simple sound bite  
6           and, especially the Amazon one-click, you just think --  
7           two things immediately come to mind. That must be  
8           obvious. And the second is, so what? Just do two-  
9           clicks.

10                      So what's the value? That's been a little bit of  
11           a problem for us at SightSound Technologies because, to  
12           go back and do a little more history, in 1995 we started  
13           our company and sold the world's first music download,  
14           the same year that Jeff Bezos started his company.

15                      And we thought this guy is so dumb because he's  
16           only halfway home. He's taking the order electronically,  
17           but he's fulfilling the object physically. Meanwhile,  
18           over in Pennsylvania where we were selling from, back  
19           then they had a little thing. Every time they would sell  
20           a book they would ring this bell and then as business  
21           really started to take off and the bell was ringing so  
22           much they had to unhitch it, ours wasn't ringing quite as  
23           fast.

24                      But we were convinced that it was a superior  
25           solution to both take the money electronically and

1 fulfill the transaction electronically. Well, I just say  
2 that to give you the sense that we were both there doing  
3 business already, precisely because we had raised venture  
4 capital around our patents in 1995 before they even filed  
5 for their one-click patent. And we were doing our  
6 business based upon a filing from 1988 for a patent that  
7 issued in '93.

8           And our first order of business in '93 was we  
9 went around to all the record labels and movie studios  
10 and said, "Here we are, a couple of guys, and have this  
11 patent, and these are all of the other things that we  
12 want to do. And we would like you to invest in our  
13 company to get us started."

14           And they looked at us like a couple of guys that  
15 had a patent on an internal combustion engine that ran on  
16 seawater and we were at Exxon asking them to put up the  
17 money. So we recognized after a while that we would  
18 probably have to do a bunch of other innovation before we  
19 could get the skeptical record label executives and movie  
20 studio guys to come on board.

21           So we were able to raise and spend \$24 million  
22 doing a whole bunch of other innovation that became the  
23 basis for more patents and enabled us to shift from music  
24 to movies and build the systems, do all of the stuff, but  
25 we were doing it because we had the money from the

1 patents.

2 We went to the skeptical copyright holder. They  
3 kept throwing higher and higher and higher burdens. We  
4 kept getting over them. And finally, we came back. We  
5 were like, "Okay, you want the broomstick of the wicked  
6 witch of the west. We delivered it. Can we go to Kansas  
7 now?" And they still -- that's a whole different story,  
8 but you know they still are withholding the copyright.

9 So I think we are a case study in the initial  
10 patent, which a lot of people piled on after us and tried  
11 to get method patents or a particular way of doing  
12 business electronically.

13 We were so many years before that that we were  
14 already in the second generation with our patent process,  
15 which was solving all of these other problems for them.  
16 But the problem is we get all painted with the same  
17 brush: one-click, two-click. That's a lot different than  
18 years of solving each problem to try and get a skeptical  
19 copyright holder to release their movie or their music  
20 electronically.

21 MR. BURK: I have to say that one of the things  
22 that concerns me about something like the Amazon patent  
23 or the patent on the peanut butter and jelly sandwich or  
24 the golf swing patent or the other ones that have gotten  
25 into the popular press is that if people like Scott are

1 using patents for nontraditional uses, or not the  
2 traditional, "I'm going to license this and collect  
3 royalty," use, if you're using it to convince skeptical  
4 business partners or to bring something to the table in a  
5 joint venture -- and the public has begun to lose  
6 confidence in the patent system because they have heard  
7 so much about what looked to them like ridiculous or  
8 obvious or what should be unpatentable types of items --  
9 that you begin to get this kind of reaction that Scott  
10 experiences where you show up with something that's truly  
11 innovative.

12 You have a patent on it and it no longer has any  
13 currency because the public or investors no longer  
14 believe that the patent office or the courts have done  
15 their job so you have something that's actually valuable  
16 to bring to the table in your business transaction.

17 MS. DeSANTI: That relates to a -- well, go ahead,  
18 Mark.

19 MR. WEBBINK: I was just going to ask, having not  
20 been involved in patent litigation directly myself at  
21 this point, if one of the other panelists would just  
22 speak, just for the record, about the cost of patent  
23 litigation generally because I think that needs to be  
24 well understood?

25 MR. GABLE: Ten million bucks.

1           MR. SANDER: How about many millions? It depends  
2 on who you're up against. It depends on what the patent  
3 covers and what's at stake. And in our case we just had  
4 a very decisive first-round victory in the Markman phase  
5 of our trial.

6           But if I had to venture a guess on Bertelsmann's  
7 side, we were admonished by the judge when we were all  
8 begging him, could you please issue this ruling because  
9 it matters to us in time of -- we don't have time like  
10 these big huge companies.

11           And he admonished everyone in the courtroom on a  
12 scheduling hearing and said, "I remind you, Mr. Sander,  
13 you have never been here with less than several lawyers.  
14 And I remind you, Bertelsmann, that you have never been  
15 here with less than an army of lawyers. And there's me  
16 -- the judge and his clerk."

17           And he said, "We are trying as hard as we  
18 possibly can. And you will have it." And he did finally  
19 get it and it was very, very good for us. But if I had  
20 to take a stab I would say it was \$9-\$12 million if I had  
21 to guess their side of it and add it to our side.

22           MR. BURK: Let me just say that ten years ago for  
23 patent law class we used to get 10 or 12 students. Now,  
24 on a bad semester I get 40 or 50. On a good semester I  
25 get 70 or so. So people know that there are jobs doing

1           this kind of thing. That market indicator should tell  
2           you how much money there is available for attorneys to  
3           make which tells you how much the businesses are spending  
4           on these kinds of suits.

5                     MR. BLACK: And although I am an attorney, that's  
6           not the way we want to build the economy.

7                     MR. BURK: Well, the Japanese have a saying that  
8           engineers make the pipe bigger whereas lawyers decide how  
9           to divide it up.

10                    MS. DeSANTI: Well, I guess that relates to a  
11           question that we wanted to pose about the role of  
12           uncertainty with respect to patents or with respect to  
13           antitrust rules. Is there a role that uncertainty plays  
14           in how the competition evolves in this industry, both  
15           with respect to uncertainty about patents, patent  
16           quality, patent validity, and other aspects of it?

17                    MR. GABLE: I think the biggest question -- I had  
18           a very interesting conversation with Scott -- is after  
19           you have gone through and you have done the best job you  
20           can in order to secure a valid patent that is patentable  
21           over the closest prior art, you always fear, I think,  
22           that there will be some new disclosure, some article,  
23           some product that has been sold, perhaps just a piece of  
24           software that has been sold, that has gotten no  
25           disclosure at all that could be an effective reference

1           against your patent. And there is always that  
2           uncertainty and I would like, perhaps, Scott to describe  
3           his bounty approach to obtaining references.

4                   MR. SANDER: We were subject to a new idea which  
5           is pretty clever called Bounty Quest. And Bounty Quest  
6           was -- I think it actually had some money from Jeff Bezos  
7           as one of the investors if I'm correct. And they put out  
8           a \$10,000 reward typically on these things, but for the  
9           SightSound, for the Hair patents, the SightSound patents,  
10          they put out their highest bounty ever of \$40,000. And  
11          then it erroneously got into the media that this bounty  
12          had been paid for our patents.

13                   MS. DeSANTI: Can you just clarify for the record,  
14          this is a bounty for people to come and say we have  
15          invalidating prior art or whatever?

16                   MR. SANDER: Yes, yes. So it uses the power of  
17          the Internet to search the entire world to look for  
18          anything that's allegedly prior art. And so they awarded  
19          a \$10,000 reward on patents called the Kaplan patents, I  
20          believe, or they're called the Intouch patents.

21                   So they gave a reward of \$10,000 for somebody  
22          that came up with something. That was patents on music  
23          sampling. And the problem was that somehow there was  
24          something wrong on their website or whatever and they  
25          actually - - somebody got confused and thought that they

1 gave out the award for the Hair patents. They did not.  
2 The Hair patents survived the \$40,000, not the \$10,000  
3 Kaplan challenge, but the \$40,000 Hair challenge. And  
4 they actually issued a clarifying statement saying that  
5 the process of surviving this Bounty Quest -- and we're  
6 still on the island. We weren't voted off or whatever --  
7 that it actually served to strengthen the argument that  
8 our patents were valid.

9 And as an aside, the ones that lost -- we should  
10 have gone for the ten grand because the patents -- this  
11 goes exactly to what we're talking about today. The  
12 patents that were at issue and the bounty that was  
13 actually paid were filed for the year after we sold the  
14 first music, and when we sold that music there were 30-  
15 second free samples as part of the download.

16 So I think our business practice probably back in  
17 1995 existed as that prior art but you couldn't go back  
18 and re-create 1995 and nobody cared that we were selling  
19 music download back then. And Jeff Bazos wasn't Man of  
20 the Year until 1999 and whatever.

21 So it is problematic when you lump all of these  
22 things together. But not to be overly quaint and quote  
23 Teddy Roosevelt one more time, but this has less to do  
24 with the patent portion of it and probably more with  
25 antitrust.

1           But we lived through an era where that's all we  
2 were looking for, what's the deal? We have the patents.  
3 We're trying to do the right thing. We're trying to play  
4 by the rules. And there were two ways of doing the  
5 business, our way where people got paid, and the whole  
6 Napster, MP3.com, all of this craziness was going on at  
7 the same time.

8           And Teddy Roosevelt once wrote, he said, "It's  
9 absurd and much worse than absurd to treat the deliberate  
10 lawbreaker as on exact par with the man eager to obey the  
11 law whose only desire is to find out from some competent  
12 governmental authority what the law is and then live up  
13 to it."

14           And we thought we were living in this sort of  
15 Alice in Wonderland upside-down world where Napster was  
16 celebrated and we were crucified because we had patents  
17 and they were just stealing all the copyrights. So we  
18 really do need hearings like this to get some order back  
19 to the discussion and say, "Look, we don't want patents  
20 that are issued badly, but they're property." And  
21 Michael Eisner sits up there and yells at Bill Gates and  
22 says, "You're stealing my property," and then I'm saying  
23 to Michael Eisner, "You're stealing my property," which  
24 he's not -- he announces an intent to with their  
25 Movielink and Movies.com services.

For The Record, Inc.  
Waldorf, Maryland  
(301)870-8025

1           And right now there's all these people just  
2 pointing fingers at each other. And the American  
3 consumer is, in our business, just stealing the stuff  
4 because nobody will lay down their arms long enough to  
5 start selling it to them.

6           So your help is appreciated and even if it's not  
7 legislation, which I hope it's not, it's probably just  
8 getting the media back on track through hearings like  
9 this that there needs to be some rational thought about  
10 these things.

11           MS. DeSANTI: Thank you. Ed.

12           MR. BLACK: On uncertainty, just, I think, from  
13 talking to CEOs in my industry for many years on many  
14 subjects, they don't like uncertainty. They want  
15 certainty. Uncertainty equals unproductiveness and  
16 expensive overhead, frankly, costs that they don't want.  
17 Having said that, they might well prefer uncertainty to  
18 really bad rules, laws in that regard. So it does not  
19 say, "Just make it clear whatever you do," isn't  
20 acceptable, but it is important. And in these areas, I  
21 think, one of the reasons I think we would like to see  
22 some reforms in the patent processes is exactly so when  
23 the patent is issued you can say, "Boy, that is really a  
24 solid patent." And people can take it to the bank and  
25 feel good about it.

1            Things can always disrupt it but the higher  
2            degree of certainty, I think, is better, which arguably  
3            says we should be shrinking, not trying to massively grow  
4            that base of intellectual property. And I do think on  
5            the competition side of the equation we have witnessed I  
6            think some policy -- there's law and there's policy. And  
7            we've got enforcement and we've got rules. And I do  
8            think there is danger that wide swings in policy overlay  
9            over the law helps to undermine the credibility and the  
10           effectiveness of the law for everybody in terms of,  
11           again, predictability.

12           And right now we're, I think, very concerned that  
13           there seems to be, there had been -- just real quickly, I  
14           think there had been a sense that in the '70s it got  
15           overly regulated and detailed. In the '80s the pendulum  
16           swung the other way and it kind of was anything goes.  
17           '90s was the feeling that it was coming back into more  
18           even keel and now it's, I'm afraid, we're sensing a real  
19           sense that antitrust policy just lost its clout as a  
20           credible, desirable policy outcome. And I think in  
21           addition to disagreeing with that substantive outcome I  
22           am unhappy about the swing pendulum aspect of policy  
23           evolution.

24           MR. GABLE: One further thought that hasn't been  
25           brought up so far, and Bob and I have discussed it a

1 little bit, and that is the possibility of an effective  
2 reexamination procedure. What is the answer to the  
3 clearly invalid annoying patent that is capable of great  
4 mischief in this use?

5 One simple answer would be the reexamination  
6 procedure. We do have such a procedure in the patent  
7 office, but there are significant defects in it,  
8 primarily that the person challenging the patent holder  
9 is at a significant disadvantage procedurally. And if  
10 you lose, if you're challenging a patent and you lose,  
11 then you're barred, you are estopped with the result that  
12 your device would infringe a certain patent.

13 If some small modifications could be made to the  
14 present system whereas the field would be more level for  
15 both the patent holder and the challenger of the patent  
16 and if they both have equal access to review,  
17 particularly to the Federal Circuit, such a procedure  
18 would be a very effective, at least comparatively to the  
19 \$12 million or \$1 million it would not cost that in order  
20 to knock out these patents which are overly broad.

21 MR. BURK: Let me qualify that just a bit because  
22 that's been the subject of some discussion, certainly in  
23 the active research literature about broadening or  
24 changing or extending the reexamination process.

25 And it's certainly an idea worth exploring but

1 some of the objections that have been raised to that is  
2 we already have an overburdened patent office. And so at  
3 least without making some real changes in the way things  
4 are done, it doesn't seem to make a lot of sense to dump  
5 back onto them again things that they have already looked  
6 at once.

7 And maybe a less kind and less gentle objection  
8 has been that there may not be much incentive for the  
9 patent office to look as carefully as they might at  
10 something that's already been through there once. There  
11 may be some institutional moral hazard, you might say, in  
12 looking at that.

13 So whichever way you want to take that, whether  
14 its an overburdened patent office or some institutional  
15 difficulties, that may not be the total solution. I  
16 think Lew may have mentioned inadvertently another part  
17 of the solution, which is he talked about misuse. And we  
18 have essentially gutted the doctrine of patent misuse  
19 over the past few years.

20 It may be that we will have to revisit that  
21 penalty of nonenforcement for misusing of patents. It  
22 might create a credible deterrent for trying to get and  
23 enforce patents that shouldn't be enforced.

24 Notice, interestingly enough, that the  
25 renaissance in misuse over the past few years has been in

1 the area of copyright of software where people have tried  
2 to enforce or overreach with regard to their software in  
3 the copyright context. It may make sense to relook at  
4 the question of misuse of the patent software context as  
5 well.

6 MS. DeSANTI: Thank you. As a follow up let me  
7 ask if any of you have observations or insights or  
8 experiences related to the burden that is put on the PTO  
9 under the case law to justify the rejection of an  
10 application? One would just think logically that if  
11 there is a burden of proof to show that, in fact, the  
12 application should be rejected, then that might prove to  
13 be an additional hurdle, in close cases, as you say, Lew,  
14 to ensuring that in fact patents that are of the proper  
15 quality are issued.

16 This is an issue that's been raised by some and  
17 I'm wondering whether any of you have observations or  
18 thoughts related to it.

19 MR. GABLE: Maybe I can get a little  
20 clarification. You mentioned cited case law. When you  
21 get a rejection from the patent office it usually names  
22 the patent that's being cited or perhaps some article  
23 that is being cited. And the patent office in the last  
24 five, ten years is doing a better job of formatting what  
25 goes into a rejection.

1 Under these internal guidelines of the office,  
2 you need to state where each element in the claim that is  
3 under examination is found in the prior art. And  
4 typically, what you have is the cited patent shows and  
5 then they take the claim that is being examined and try  
6 to show in the asserted reference what element meets  
7 that.

8 And if they can make a clear teaching that each  
9 reference, each element of the claim, is met by the  
10 reference then that patent is validly rejected. Of  
11 course, then as a patent attorney we go back and take a  
12 look, element by element by element, to see if there is a  
13 clear teaching. And that is one of the very difficult  
14 skills to teach the examiner.

15 There is fair application and there is  
16 application, particularly of say a young examiner who  
17 really has not gone through this process and is not  
18 applying the reference element by element in a clear way.

19 MR. BAHR: I think the question you were asking  
20 was under current Federal Circuit case law, the office  
21 has the burden of establishing unpatentability of a claim  
22 to reject a claim.

23 MS. DeSANTI: Correct.

24 MR. BAHR: And I think you were asking would  
25 things be better if say the applicant had the burden of

1           establishing that a claim was patentable before we  
2           allowed it?

3                     MS. DeSANTI: Thank you, Bob. That was my  
4           question.

5                     MR. GABLE: Okay. I missed it.

6                     MS. DeSANTI: That's okay. Well, Bob articulated  
7           it better.

8                     MR. BAHR: From Patent Office lingo.

9                     MR. BURK: When we're thinking about procedure in  
10          general, whether it's at the patent office or anywhere  
11          else, we typically want to calibrate a burden of proof or  
12          standard in such a way that the burden rests on the party  
13          with the most information.

14                    And my sense has been, at least in the areas I'm  
15          most familiar with, and Lew or others can correct if this  
16          is different in the software area, but the party applying  
17          virtually always has more information than the patent  
18          office does.

19                    And given what we know about the burden on the  
20          patent office and at least some studies indicate the  
21          patent examiner spends a total of maybe 18 hours with an  
22          application that is making its way through the patent  
23          office.

24                    It's unlikely the patent office is going to  
25          develop better information than the party has. And so

1 from a policy standpoint you would think that we would  
2 want to calibrate things in such a way that the burden be  
3 on the party to produce the information rather than the  
4 patent office to try and develop the information.

5 MR. GABLE: There is some procedure at the patent  
6 office. I mean there's the duty of candor that the  
7 applicant and applicant's attorney owes to the patent  
8 office. And if you have some information, whether it's  
9 prior art or anything else that would affect the validity  
10 of the patent, as an attorney, as an inventor applicant,  
11 you're under an obligation to disclose that. And if you  
12 fail to do that, that of itself could invalidate your  
13 patent. So usually most patent attorneys are very  
14 scrupulous in citing everything they potentially can have  
15 to the office.

16 MR. BURK: I think maybe part of what makes the  
17 question is, under current Federal Circuit case law that  
18 duty of candor is always completely toothless. You're  
19 right. But if you aren't candid -- you're right; in  
20 theory, it should invalidate the patent but virtually  
21 never does. So there's no real penalty there for failing  
22 to come forward or to be as diligent as you could be.

23 MS. DeSANTI: Another issue that has been raised  
24 is that there is a duty of candor with respect to what  
25 you know already, but there is no duty to search. And

1 we've been told by some companies during these hearings  
2 that they go out of their way not to search because they  
3 don't want to know about things and then be accused of  
4 willful infringement subject to treble damages  
5 subsequently. And any views on that?

6 MR. BURK: Just the same one I expressed a moment  
7 ago that you want to put the burden -- I mean, always in  
8 court, in an agency, anywhere -- on the party that has  
9 the most information or has access to the most  
10 information.

11 MR. GABLE: Well, there are some incentives that  
12 are not written into the rules of the patent office of  
13 the statutes. In talking with Scott here on his patent  
14 application, one of the things that they did with the  
15 results of their searching was to give it to the patent  
16 office.

17 There were an extreme number of references  
18 involved, but the reason you would do it, and it has  
19 nothing to do with the rules, is that by putting this  
20 much prior art into the record of examination, you  
21 certainly probably have given the patent office the best  
22 references they'll find.

23 But it also establishes a level of validity. In  
24 other words, to seriously challenge the validity of this  
25 patent later you would probably have to find a reference

1 that's not included in the submission of the applicant to  
2 the patent office.

3 And so, you can almost tell me to look at a  
4 patent on the front page, how many references are cited  
5 against it, I take it as a measure of the effort. If you  
6 go a couple of pages of references, you have been very  
7 diligent in bringing the prior art to the patent office.

8 MR. BLACK: I suppose I would think, though, that  
9 if we wanted to put patents into different motivations  
10 for getting patents, which is not that easy, it's  
11 complex. But nevertheless, the attempt that some people,  
12 they're getting in there. The rationale that I think  
13 they came up with, we don't want to know too much, we can  
14 use for leverage. We can use it for trading or we're big  
15 enough to bargain and pressure people.

16 You get a different dynamic. I think what you  
17 describe, Lew, is the traditional ideal model of somebody  
18 who really has got something, wants to go in and get a  
19 patent, license it, what I think we all thought was the  
20 core purpose of it and what I'm saying, I think if the  
21 patents are going to be done, the different kind of gamed  
22 system, then that model doesn't work for a lot of people.

23 And, in fact, the instinct to not do that  
24 research, to not know all of that information, those  
25 things become much more cost effective little strategies

1 to process through the system.

2 MS. DeSANTI: Well, I'm not quite sure where the  
3 siren sound came from, but I was wondering whether  
4 someone had a timer on because we are coming to the end  
5 and what I'd like to do is give everyone a chance to make  
6 any closing statements, cover any thoughts you have that  
7 haven't been raised so far. Mark.

8 MR. WEBBINK: Just to cover a few points and  
9 Robert's been very patient listening to us rail to some  
10 extent on the patent process. But I don't think any of  
11 us look at it as something that is institutionalized  
12 necessarily into the Patent and Trademark Office other  
13 than as it is treated legislatively.

14 There are some curative measures and some of them  
15 are legislative. Funding, which has been a sore spot for  
16 any of us who have practiced in this area, the fact that  
17 reported user fees are levied on people seeking  
18 protection, intellectual property protection, logic would  
19 dictate that those user fees should go to fund the  
20 organization that's trying to prosecute and deal with  
21 those matters. And yet those funds are diverted to the  
22 general fund of the government and away from that office.  
23 And then the office is considered overburdened. It seems  
24 like we've got a disconnect there.

25 I think the issues of patent misuse need to be

1       revisited. The issues of disclosure, especially within  
2       the area of software and business method patents, and  
3       while we have a system that attempts to put the same shoe  
4       on every foot regardless of technology one has to  
5       question whether that ought to be the case, whether there  
6       are different realities that exist for pharmaceutical  
7       versus software, for chemical patents versus mechanical  
8       patents. And should they, in fact, all be treated  
9       differently or the same?

10                These are, in fact, legislative matters that need  
11       to be dealt with and I don't see any groundswell. If  
12       anything where we're seeing the groundswell of  
13       legislation being pushed is for stronger and stronger  
14       measures, criminalizing practices that have been  
15       previously noncriminal practices, industries that have  
16       great financial strength go into Congress and say there  
17       is no technology that would allow me to safely download  
18       my digital content so we need the government to take  
19       action and step in on this matter.

20                Well, in fact, there is technology that would do  
21       it. And they know that there is technology that would do  
22       it. So there are a host of legislative issues. I then  
23       look at the folks that we've got before us and I say, for  
24       the rest of us, where's our protection? And it's with  
25       the agencies that are sitting right here.

1           It's with the Department of Justice and it's with  
2 the FTC, and asking you all to focus on these matters in  
3 the manner that you have, but understand that there is a  
4 reality out there that I'm not sure the average member of  
5 the public understands about how business is being  
6 conducted in this country right now.

7           MS. DeSANTI: Thank you. Scott?

8           MR. SANDER: I'd like to just finish up by saying  
9 that bigness does not necessarily equal smartness nor is  
10 bigness in itself a crime. Let me give you two examples.  
11 I told you the story of Arthur Hair and our patents and I  
12 think we are -- I hesitate to use the term "poster  
13 children" because it makes us seem very much like victims  
14 and we're not -- but we are the classic case of where we  
15 have got it fair and square. We used it right and then  
16 everyone woke up and took notice. That seems to me why  
17 the patents should be issued on one hand.

18           But then I've had a personal experience. I have  
19 five young children and my youngest of the five children  
20 has bone disease that called osteogenesis imperfecta.  
21 It's called brittle bone disease.

22           And a pharmaceutical company figured out a way to  
23 use this class of drugs called Bisphosphonates to treat  
24 this and my daughter, who is now seven, from the time she  
25 was two to the time she was four, she broke her legs

1 seven times. Every time she would learn to walk again  
2 she would break her legs.

3 From the time that we took her, actually to put  
4 her into this experimental drug treatment, until today  
5 she hasn't had any fractures and this Christmas she  
6 danced in the Nutcracker with her sisters.

7 And they did that because they make these drugs  
8 because they get the patents and they can put more money  
9 into it. So I'm going to leave all of that to you people  
10 because it is not that simple. It does matter. And some  
11 day SightSound Technologies may be a very big company and  
12 I hope that we use our patent rights well. And I think  
13 these issues have to be balanced.

14 MS. DeSANTI: Thank you. Well, thank you all very  
15 much for coming. This has been an extremely interesting  
16 discussion and I would ask you to join me in thanking our  
17 speakers as well.

18 **(Whereupon, the hearing was**  
19 **concluded at 3:54 p.m.)**

20  
21  
22  
23  
24  
25

C E R T I F I C A T I O N   O F   R E P O R T E R

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25

CASE TITLE: HEARINGS ON COMPETITION AND INTELLECTUAL  
PROPERTY LAW AND POLICY IN THE KNOWLEDGE-BASED ECONOMY  
HEARING DATE: MARCH 20, 2002

I HEREBY CERTIFY that the transcript contained herein is a full and accurate transcript of the notes taken by me at the hearing on the above cause before the FEDERAL TRADE COMMISSION to the best of my knowledge and belief.

DATED: March 28, 2002

\_\_\_\_\_  
DEBORAH M. TURNER

C E R T I F I C A T I O N   O F   P R O O F R E A D E R

I HEREBY CERTIFY that I proofread the transcript for accuracy in spelling, hyphenation, punctuation and format.

\_\_\_\_\_  
SARA J. VANCE

For The Record, Inc.  
Waldorf, Maryland  
(301)870-8025